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Jo Taylor



INTERNATIONAL TRADE IN SHARK FINS

by

Trudie Dockerty

Prepared under the supervision of Dr. Richard Luxmoore

WILDLIFE TRADE MONITORING UNIT

WORLD CONSERVATION MONITORING CENTRE

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INTERNATIONAL TRADE IN SHARK FINS

1.0 INTRODUCTION

Over the last few years there has been growing disquiet about the increasing numbers of sharks being fished and traded on domestic and world markets. A major buyer quoted in the New York Times (1989) said "The shark is the most utilised species of fish there is. You can sell its smile, its skin, its meat, its liver, its fins. It's a wonderful and awesome species".

The following account relates concerns arising from a reported upsurge in demand for shark products, but probably presents an over-simplification of the overall world situation, as it is based mainly on reports from the USA. A general difficulty was encountered in locating references which portray experiences in other parts of the world. There seemed to be conflicting observations in some of the literature reviewed, caused perhaps by regional differences in the abundance of sharks and in the markets for shark products. Due to these factors, it is difficult to gauge the present consensus of opinion on the shark's current global status.

Compagno (1990) has identified recently established shark fisheries of at least three types:-

- 1) Local, mostly by-catch fisheries of numerous developing countries (e.g., Mexico, India, Pakistan, and Indonesia);
- 2) Wide ranging offshore by-catch and directed fisheries of several developed countries that have invested in long-range international fishing fleets (e.g., U.S.S.R., Japan, South Korea, and Taiwan);
- 3) Local directed fisheries of developed countries in which the consumption of sharks has suddenly become fashionable (e.g. the United States).

The United States fishery emerged over the 1980's and has been studied by Manire and Gruber (1990). They report that an increase in demand for shark meat, coupled with the foreign demand for fins, has lead to the rebirth of an intensive shark industry, which had been dormant since the late 1930's when the demand for vitamin 'A' rich shark liver oil declined. An analysis of the total catch in the 1980's revealed that 57% was derived from commercial fisheries and 43% from sport fishing. Of the total catch only 34% was landed; 5% from commercial enterprises and 29% by sports fishermen. An astounding 66% was discarded dead, mostly as by-catch of fisheries targeted at swordfish, tuna, shrimp or squid. The by-catch element is also a feature of other fleets. 'Greenpeace Australia calculates that in 1988 alone Taiwanese and Korean fleets killed over 2.25 million blue sharks Prionace glauca in the north Pacific as they fished for squid.' (Dayton, 1991).

The impact of sport fishermen is also significant. As far back as 1970 a survey by the US Fish and Wildlife Service estimated that sport fishermen in that country were catching 1,715,000 sharks a year (Burgess, 1970). Peter Peck of the European Federation of Sea

Anglers (pers. com.) suggests that the economic value of the shark sport fishery can be greater than that of the commercial fishery in some areas.

Compagno (1990) describes as 'particularly worrying' the international shark fin trade, 'which targets a low-volume, high-value gourmet product worldwide and fits nicely as a low-risk by-catch for numerous inshore and high seas fisheries'. He suggests that as the value of fins to the oriental market continues to rise, some shark species may be pressured by trade in the same way as the elephant is for its ivory. He adds, 'The oriental shark fin fishery seems all-pervasive and may be affecting populations of large oceanic sharks worldwide. Longliners, purse seiners, and pelagic gill-netters can harvest shark fins as a highly lucrative by-catch with relatively little directed effort and storage problems. By being discarded after removal of their fins, shark carcasses do not compete for freezer space with the more valuable oceanic scombroides that are targeted by such fisheries'.

Manire and Gruber (1990) claim that the practice of 'finning', that is, cutting the valuable fins from sharks and returning the remainder of the shark to the ocean, has stimulated the shark fishery. Dayton (1991) reports that fins have fetched \$117 kg on international markets.

The wasteful, but legal practise of finning has caused public outcry. The New York Times reported 'more than 35 million pounds (approximately 16 million Kg) of shark, or three times the yearly domestic catch, are discarded from finning in the United States waters each year' (Anon, 1990). Some reports refer to animals being dumped back in the ocean alive, without fins. Dayton (1991) says that many species of shark are exploited in this way. However, in an earlier interview in the New York Times (Anon, 1989) a shark fin dealer said that fishermen were not "going to throw away 50 cents on every dollar" by discarding sharks after removing the fins, (indicating that about half of a shark's market value in the United States is in the fins - also confirmed by Ingwerson, 1989).

It appears that the relative value of the fins compared to the carcass may vary in different markets, and that the extent of the finning practice may depend on the demand for other shark products in a given locality. Also, although several writers refer to widespread finning very often the sources of such information are not given.

A case was documented in 'The International Angler' in 1989. A Japanese fishing vessel the 'Copemapro' was stopped by a Mexican naval vessel in the 50 mile sportfishing zone off Cabo San Lucas. In addition to the catch of marlin, the ship's holds were found to contain two tons of shark fins minus the sharks.

The main market for the fins is Asia, where they are dried, salted and soaked several times before the meat is extracted from them and cut into long thin strips (Anon, 1990). The meat is then used to prepare shark fin soup which has been a highly prized oriental delicacy since the second century BC (Cook, 1990).

Traditional consumers of fins are Taiwan, Hong Kong, Singapore, Macao and China. Since 1949 the communist authority in China had

'unofficially frowned upon the eating of dishes which historically had been associated with privileged classes', according to Cook (1990), but since the government liberalised economic conditions in 1987 the demand for fins has resurged. Cook continues, 'essentially, a potential consumer block larger by several times than the entire consumer base outside of China was created in a very short period of time'.

The Chinese fin merchants have been seeking new sources to replace diminishing supplies from the traditional fisheries of Oman, Pakistan, India, Nicaragua, Cost Rica, Nigeria, Mexico and the Caribbean (Cook, 1990). Dayton (1991) reports that demand in recent years has also increased in other parts of the world, creating concern that this may cause a long-term threat to shark numbers: 'As large-scale finning is a relatively new and largely unregulated activity, researchers can only guess at the price it exacts on shark populations. Circumstantial evidence suggests it is high. for example, in the Coco Islands of Florida fishermen began finning hammerhead sharks (Sphyrnidae) seven years ago. The population dropped so steeply that a sanctuary was created.'

There are around 360 species of shark. According to Dayton (1991) 'Shark life histories are a particular mystery. There are vast gaps in our understanding of the development and reproductive cycles of most species.' However, in general sharks are known to be very slow growing, taking many years to reach maturity, and they produce very few young after long reproductive cycles (Manire & Gruber, 1990). These biological characteristics limit their ability to compensate for increased exploitation (Compagno, 1990). In the UK the NCC (1991) state '85-90% of the UK blue shark catch are female and caught just as they are about to breed for the first time.'

Manire and Gruber (1990) also point out 'most sharks occupy the position of top or apex predator in the marine food web. It is generally accepted that apex predators benefit the prey organisms below them in a food web. Because most sharks feed on a variety of prey, they exert important controls on these food webs. In addition, sharks are distributed worldwide, from Arctic waters to the tropics, from freshwater lakes to the sea, from depths of a few inches to several thousand feet. Thus, the impact of their decline is likely to be great (ecologically).'

The history of shark fisheries follows the 'boom and bust' pattern. The NCC (1991) report 'virtually all major targeted shark fisheries studied have crashed after 3-5 years'. Morrissey & Gruber (1989) report 'the only sustainable shark fisheries are those few still dependent on traditional small-yield methods. Before mechanisation made large hauls - hence overfishing - possible, Britain's dog fish fishery had survived for 500 years'. In the United States the maximum sustainable yield is presently regularly being exceeded and Manire and Gruber (1990) predict that 'a collapse of the shark fishery (or individual species) is likely with continued heavy fishing'.

Populations of the soupfin shark Galeorhinus galeus off the California coast were one of the earliest casualties, having been originally overfished in the 1930's. According to Ingwerson (1989) the soupfin shark was recovering when the market for sharks began developing in the 1970's and it was promptly fished out again. The

soupfin and gummy shark Mustelus antarcticus have also declined in Australian waters, with landings falling from 5000 tonnes in the 1970's to 1000 tonnes in the 1980's (Dayton, 1991).

Compagno (1990) estimates that 8% of the sharks are major fisheries species, 20% moderate, 18% minor, and 54% minimal. In general, small species have less commercial interest than the large sharks, and are therefore more likely to be discarded as by-catch (Steve Lockwood, MAFF, pers. com.). Sharks most preferred for fins are, in order of preference: the sandbar, bull, hammerhead, blacktip, porbeagle, mako, thresher and blue shark (National Marine Fisheries Service, 1989). The high element of wastage of shark resources is partly due to the fact that the large species prized for their fins command relatively low prices for their meat, while those with valuable meat have low-value fins. Shark meat spoils quickly and so fishermen are more inclined to discard it than invest in costly refrigeration unless there is a specific market for it (Elmer-Dewitt, 1991).

The annual worldwide catch of sharks rivals that of tuna and exceeds 600,000 tonnes (Morrissey & Gruber, 1989), and according to Compagno (1990) the catch curve is 'still rising with a possible slight flattening trend'. Manire and Gruber (1990) are concerned that 'if uncontrolled exploitation continues, many species will have become endangered in a matter of only 20 or 30 years'.

The Marine Conservation Handbook (1991) states 'the expanding shark fin market in the east has accelerated the demand for shark landings and this is likely to be the most serious threat to populations'. A measure of 'threat' must be taken into account when considering the conservation requirements of a species, and researchers are calling for controlled fisheries, protected nursery areas for young sharks, shark reserves and an international ban on finning (Dayton, 1991). Manire and Gruber (1990) also see the need to increase public education and awareness regarding the importance of shark resources.

Sport fishing organisations may be able to play an important role here. Many fishing organisations have an increasing conservation interest. The policy of the Shark Angling Club of Great Britain is to promote the release of sharks caught by anglers, especially those under 75lb (Anon, 1986), and some groups are operating tag and release schemes which will it is hoped, contribute to a greater understanding of shark behaviour.

In the United States a Shark Fishery Management Plan has been drawn up by the National Marine Fisheries Service (1989) and this suggests several measures to regulate the fishery, including the authorisation of shark dealers and the issuing of permits to commercial fishermen, along with controls over the sports fishery. With particular regard to the finning issue there is to be a 'requirement that fins harvested be landed in proportion to carcasses, i.e., no more than four fins, of proportionate size, to a carcass' (Manire & Gruber, 1990). In Australia a tightening of regulations has resulted in the Taiwanese fishing fleet opting to leave the fishery (Cook, 1990). However, the shark fin market has expanded rapidly and more research is needed to determine the level of exploitation of various species, and to assess what conservation measures are appropriate.

2.0 AIM

Due to the increasing interest and concern with regard to the long term sustainability of shark populations, the Species Survival Commission of IUCN has recently set up a Shark Group to produce a Conservation Action Plan for sharks. WWF Hong Kong has also shown interest in compiling information on the shark fin trade.

This study was undertaken to quantify the volume and value of shark fins in international trade, and identify the main producer and consumer nations. It is of importance to monitor international trade in species not listed in CITES, to check on trade which may reach potentially threatening levels, and hence require the instigation of trade controls.

3.0 METHOD

The data contained in this report was extracted from the annual volumes of foreign trade statistics held in the Department of Trade and Industry's Export Market Information Library in London. In addition Hong Kong records for 1984 were kindly made available by WWF Hong Kong.

Due to limited space, the Export Market Information Library now only holds the current 5 years records for each country, although a few more years records were available in some cases. Where data relating to fins was located, the reported source of imports and exports was examined, to identify further countries involved in the trade, whose statistics could also be included in this analysis.

Statistics specifically relating to trade in fins were found for 9 countries under the commodity codes given in Table 3.01. As shark fins are marketed in various forms, fresh, frozen, dried or otherwise processed it proved difficult to ensure all commodity codes were accounted for, and that additional quantities of fins are not traded under more obscure descriptions.

None of the major trading partners of the countries identified were found to produce statistics which specifically referred to shark fins. A list of the records investigated is given in Table 3.02. In addition, the records of USA and China were reviewed. These two nations include shark fins in a category along with other fish products, and due to this factor their records were not considered suitable for inclusion in this analysis.

The remainder of this report focuses on the 9 countries for which statistics were readily available, but it may be possible in a future study to locate statistics for other countries and also to quantify more localised trade, for example, the British commercial longline catch of porbeagle and blue shark, most of which goes to the Continent according to Mitchell (1991).

The accumulated data was entered into a manual 'ledger' (termed 'the shark data book') as it was felt that this system would provide the most flexibility when analysing the data. The totals quoted in each country's records were treated as correct and any differences were adjusted as rounding errors. Where it was not possible to

TABLE 3.01

SUMMARY OF COMMODITY CODES RELATING TO SHARK FIN PRODUCTS 1984-1990

The data contained in this report has been compiled from import and export records of shark fins identified under the commodity codes detailed below, extracted from the annual volumes of foreign trade statistics held in the Department of Trade and Industry's Export Market Information Library.

Year(s)	Records of (Country)	Import/Export	SITC	CCCN	HS	Description
1984/90	Hong Kong	I E/ re-E	35035			Sharks fins salted or dried
1984/90	Hong Kong	I E/ re-E	35036			Sharks fins simply boiled in water
1985/86	Indonesia	I E	350320	302320		Shark fins dried salted or in brine
1987/88	Indonesia	I E	350320	302320		Shark fins dried salted or in brine
1989/90	Indonesia	I E	30559300	3513300		Sharks fins dried
1989/90	Indonesia	I E	30569300	3529230		Shark fins salted
1986/87	Japan	I E		03.02-325		Sark fins, salted, in brine or dried
1986/90	Japan	I E			0305.59-920	Fins of Dogfish and other sharks, dried but not smoked
1984/87	Malaysia	I E	035-032-00	03.02.320		Sharks' fins, dried, salted or in brine
1986	Malaysia (Sabah only)	I E	035-032-00	03.02.320		Sharks' fins, dried, salted or in brine
1985/87	Malaysia	I E	037-191-00	16.04.210		Sharks' fins, prepared, not in airtight containers
1988/89	Malaysia	I E	035-130-300		0305.59.300	Sharks' fins, dried, whether or not salted but not smoked
1988/89	Malaysia	I E	035-299-200		0305.69.200	Sharks' fins, salted but not dried or smoked and in brine
1988/89	Malaysia	I E	037-160-910		1604.20.910	Sharks' fins
1986/87	Singapore	I E	0350310	0302310		Sharks' fins dried or salted
1986/88	Singapore	I E	0371210	1604210		Sharks' fins prepared not canned
1989/90	Singapore	I E	0351100		30559105	Sharks' fins dried or salted
1989/90	Singapore	I E	0371610		160420108	Sharks' fins prepared
1985/88	Sri Lanka	I E		03.0201		Fish, dried, salted or in brine: Fish, dried - Shark fins
1985/87	South Korea	I E		03.0202		Fish, dried, salted or in brine: Fish, dried - Shark fins for re-export
1988/90	South Korea	I E	035032	0302.0302		Shark fin
1984/88	Taiwan	I E	035131		0305.59.1000	Shark fin
1984/88	Taiwan	I E		16040400		Shark's fin
1985/88	Taiwan	I E		03020500		Shark's fins
1989/90	Taiwan	I E		03010600		Sharks' fins, edible
1989/90	Taiwan	I E			1604202011-7	Fins (inc Shark, Skate and Ray Fins) prepared or preserved, frozen
1989/90	Taiwan	I E			1604202012-6	Fins (inc Shark, Skate and Ray Fins) prepared or preserved, canned
1989/90	Taiwan	I E			1604202019-9	Fins (inc Shark, Skate and Ray Fins) prepared or preserved
1989	Taiwan	I E			0305242000-8	Sharks' fins, dried
1989/90	Taiwan	I E			0304903000-8	Sharks fin, edible, fresh, chilled or FR
1989	Taiwan	I E			0305692000-6	Shark's fins, salted or in brine
1990	Taiwan	I E			0305592000-8	Shark's fins, dried
1984/87	Thailand	I E		030210		Shark's fins washed dried smoked
1984/87	Thailand	I E		030211		Shark's fins unwashed dried smoked
1987	Thailand	I E		160421		Shark's fins not in airtight containers
1988/90	Thailand	I E			0305.591-004	Shark fins, dried, whether or not salted

SITC - Standard International Trade Classification

CCC - Customs Co-operation Council

HS - Harmonised system

TABLE 3.02

Statistics viewed but no detail given of shark fins in trade

Source: Export Market Information Library

COUNTRY	COMMENT
Bangladesh	No detailed trade statistics located
Brazil	Statistics for 1980/81 only, but shark fins not detailed
Burma	No detailed trade statistics located
India	Only source of imported fish given was Nepal; exports of shark fillet recorded to China, Hong Kong, Sri Lanka, Singapore, Japan, but no detail of fins.
Kenya	No detailed trade statistics located
Maldives	No statistics found
North Korea	No statistics found
Pakistan	No detailed trade statistics located
United Arab Emirates	No statistics found
Yemen	No statistics found

identify the source or recipient nation from the records, such entries were entered as 'unspecified'. The data was subsequently processed via LOTUS 123 and SUPERCALC spreadsheets. A summary of the shark data book is given in Appendix I (by year) and Appendix II (by country).

A more comprehensive collation of data was originally intended, to ascertain the global pattern of trade, but due to limitations in the statistics available, and time, this has not currently been possible. The present data can however be easily added to should a further study be carried out.

4.0 RESULTS

A preliminary analysis of the existing data was undertaken, with the following results:-

(Full summaries of the data can be found in Appendix III (imports) and Appendix IV (exports).)

4.1 Quantity of Fins Traded

The total quantities of shark fins traded in each year as reported by the 9 countries examined are given in Table 4.11. Theoretically, if figures for all countries trading in shark fins were present and correct, global imports would equate to global exports. As can be seen from the Table, total exports vary greatly from total imports, and this indicates that a sizeable proportion of world trade in shark fins arises from sources which were not included in this study.

To quantify the global utilisation of shark fins, as opposed to external trade exclusively, the equation would be somewhat different:

$$\begin{array}{lcl} \text{DOMESTIC PRODUCTION (total landings)} & & \text{DOMESTIC CONSUMPTION} \\ + \text{ IMPORTS} & = & + \text{ EXPORTS} \end{array}$$

An analysis of fishery statistics would be needed in order to ascertain such figures. However, as with import/export statistics it is doubtful that all the nations concerned would have statistics relating to fins available, although this would provide an interesting area for further study.

It should be noted that the data set given in Table 4.11 is complete only for the years 1986-1989. Hong Kong, followed by Singapore make by far the largest contributions to the totals, both in terms of imports and exports. Of general interest is the increasing trade reported by Taiwan, particularly with regard to exports, which exceed reported imports. This suggests increased activity over the period by the Taiwanese fishing fleet which as previously mentioned, have taken sharks as a by-catch of the squid fishery in the north Pacific (Dayton, 1991).

An overall increase in the trade reported by the 9 countries, which appeared to peak in 1988 with imports at just under 6,000 tonnes, and in 1989 with exports at just under 4,500 tonnes, is illustrated

TABLE 4.11

Total quantity of shark fins traded, identified from the foreign trade statistics of the countries examined.

nb: n/a = figures not available at Export Market Information Library

IMPORTS (Kg)	1984	1985	1986	1987	1988	1989	1990
Hong Kong	2778978	2648187	2879084	3552634	3737923	3553966	3838028
Indonesia	n/a	0	0	50	3	4000	682
Japan	n/a	n/a	0	0	0	0	0
Malaysia	274810	162090	73460	64660	73010	91140	n/a
Republic of Korea	n/a	90	0	1250	6067	7934	11400
Singapore	n/a	n/a	869118	1198381	1925016	1234360	1023884
Sri Lanka	n/a	0	0	0	0	0	n/a
Taiwan	2100	1097	2800	20366	103498	125662	70135
Thailand	84752	96766	94978	104573	131462	83584	66927
TOTAL	3140640	2908230	3919440	4941914	5976979	5100646	5011056

EXPORTS (Kg)	1984	1985	1986	1987	1988	1989	1990
Hong Kong	398236	427274	596658	846285	1207071	1434110	1609523
Indonesia	n/a	326918	429248	546763	458442	516511	421556
Japan	n/a	n/a	710667	632189	527470	503042	451264
Malaysia	2130	2090	280	13060	8300	11320	n/a
Republic of Korea	n/a	39998	79236	60100	51028	35932	75469
Singapore	n/a	n/a	750459	1122279	920358	1573549	835399
Sri Lanka	n/a	26353	35512	52978	49159	53932	n/a
Taiwan	16867	676	9368	150608	149857	287450	366277
Thailand	20683	22382	37024	42069	52890	35171	24946
TOTAL	437916	845691	2648452	3466331	3424575	4451017	3784434

NB: The data set is only complete for the years 1986–89.

Source: Department of Trade & Industry – Export Market Information Library

in Figures 4.12 and 4.13 along with other information from Table 4.11. Although it is difficult to make any deductions from only a few years records, it may be important to monitor levels of trade in the next few years to see if a downturn in quantity has occurred, and if so, to ascertain the reasons for it.

(NB: Although figures for Malaysia, 1990 were not available, it is considered that this makes no great difference to the overall level of trade represented in Figures 4.12 and 4.13, based on the average trade for that country over the previous few years).

A further analysis was undertaken to determine the nature of the commodities in trade. A cursory inspection revealed that the majority of fins traded were 'dried', and so the data was divided into two categories 'dried' and 'other' from the descriptions given under the commodity codes shown in Table 3.01. The results are represented in Figures 4.14 (imports) and 4.15 (exports) as a percentage of the total quantities traded. Although only a small percentage, the graphs demonstrate that 'other' product types have been increasing in recent years; these may be fresh, frozen, canned etc.,. The change in product range may be a response to the preferences of consumers in new markets, or may indicate a change in the type of fins available, the fins of some species being preferred to others, as mentioned previously. Although this is purely speculation it may warrant further investigation. Whilst the missing years' data, particularly for Singapore and Malaysia may distort the percentages, the years 1986-89 for which the data set is complete reflect the overall pattern of increase in 'other' products which both graphs show.

There may however, be another factor influencing the apparent change in product range, as many countries switched commodity code classification systems during 1988-89 (see Table 3.01). In the case of Taiwan in particular, this appears to have had an effect on the split of both imports and exports recorded as 'dried' and 'other' (see Appendix III,a & IV,a).

4.2 Values Involved

The foreign trade statistics also detail the value at customs of imports and exports. Imports are given 'Carriage including Freight' (CIF), exports are given 'Free on Board' (FOB). All values given in this report are at these rates. Market values were not determined. The values are given in local currency and have been converted to sterling where applicable at the exchange rates given in Appendix V.

The total value of fins traded by the 9 countries peaked in 1989 at a value of nearly £74 million for imports (Appendix III,d) and over £45 million for exports (Appendix IV,d).

As many of the sources cited earlier in this report stated that prices of fins have escalated in recent years, the price per KG was calculated for each country in each year to reveal whether this trend was demonstrated by these records. The price per KG was calculated for each of the commodity categories 'dried' and 'other', to identify any differences between them. In the case of Hong Kong where the 'other' category represents fins boiled in water, the value per KG is lower than that of dried fins (except 1984 and 1985 which appear to be rather an anomaly - see Appendix III,c).

Figure 4.12 Shark fins imported

selected information from Table 4.11

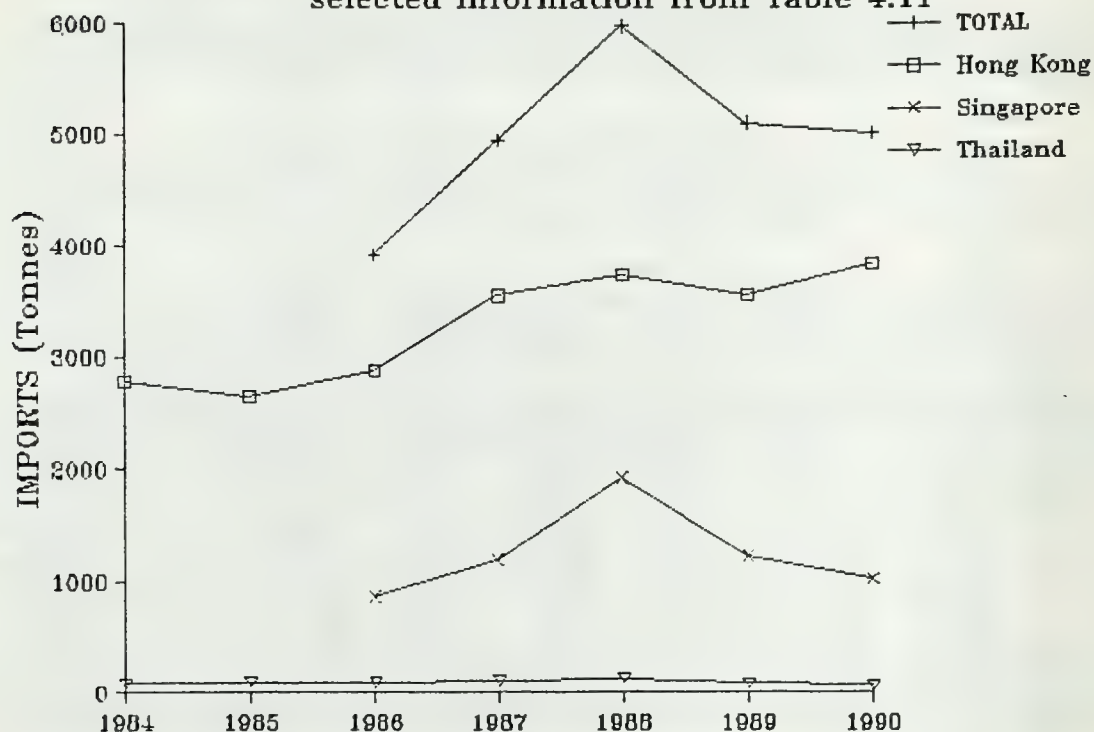


Figure 4.13 Shark fins exported

selected information from Table 4.11

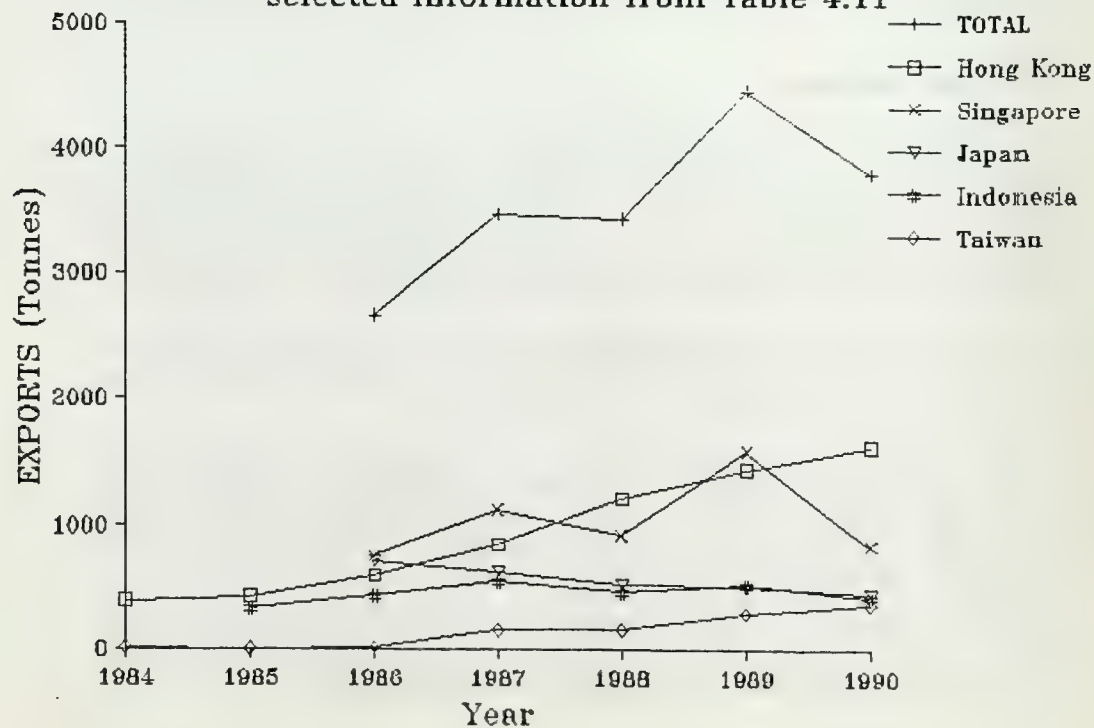


Figure 4.14 Analysis of products traded
by % of total imports. NB complete data set 1986-89 only

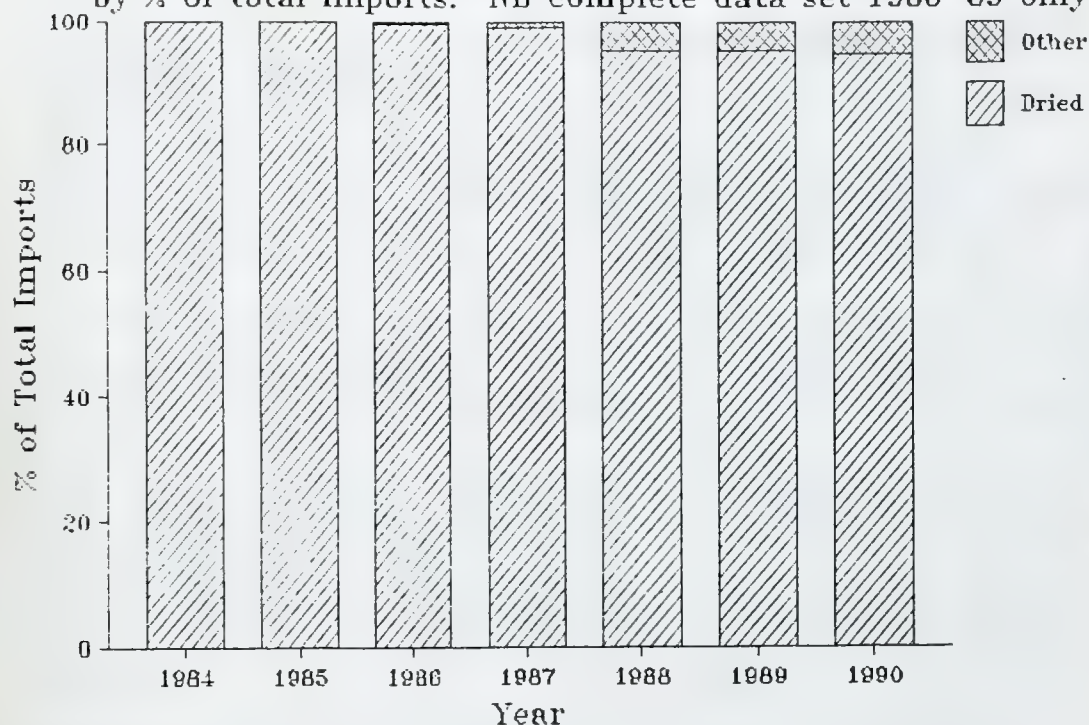


Figure 4.15 Analysis of products traded
by % of total exports. NB complete data set 1986-89 only

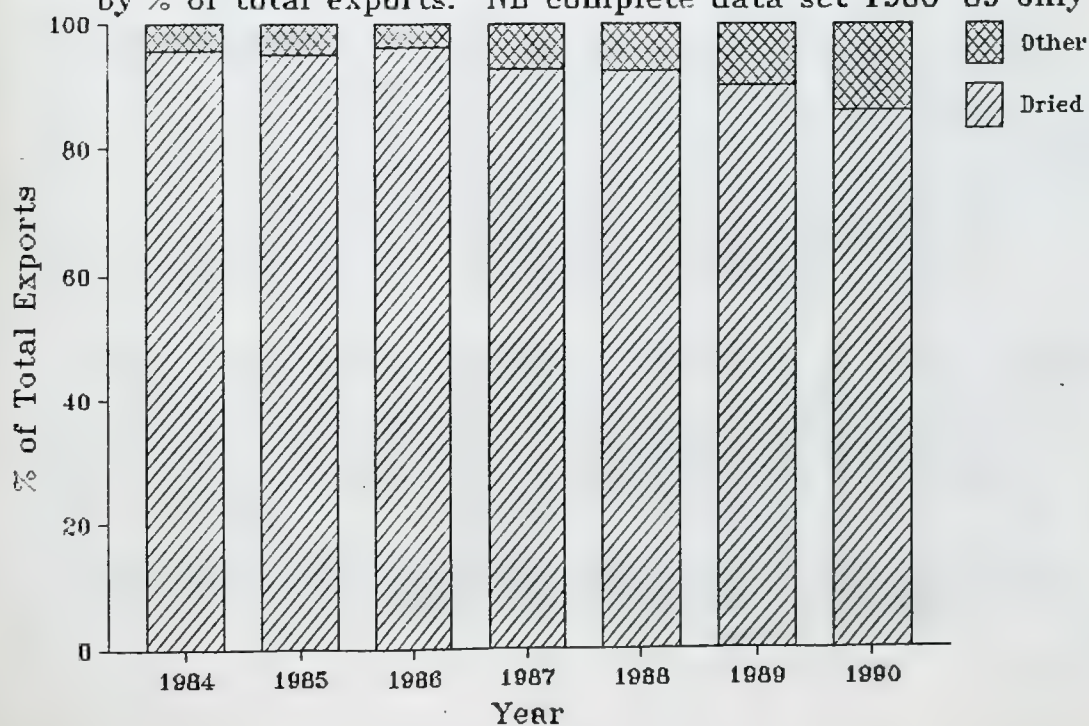


Figure 4.21 Price of shark fin imports

Price per Kg. CIF, in local currency

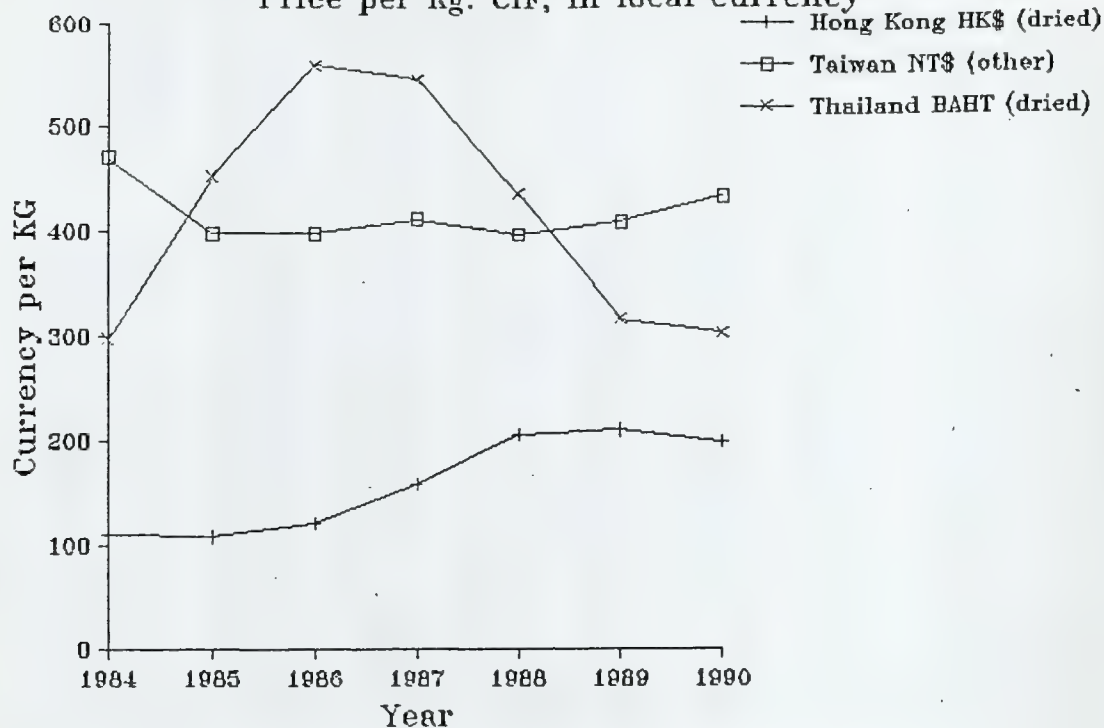
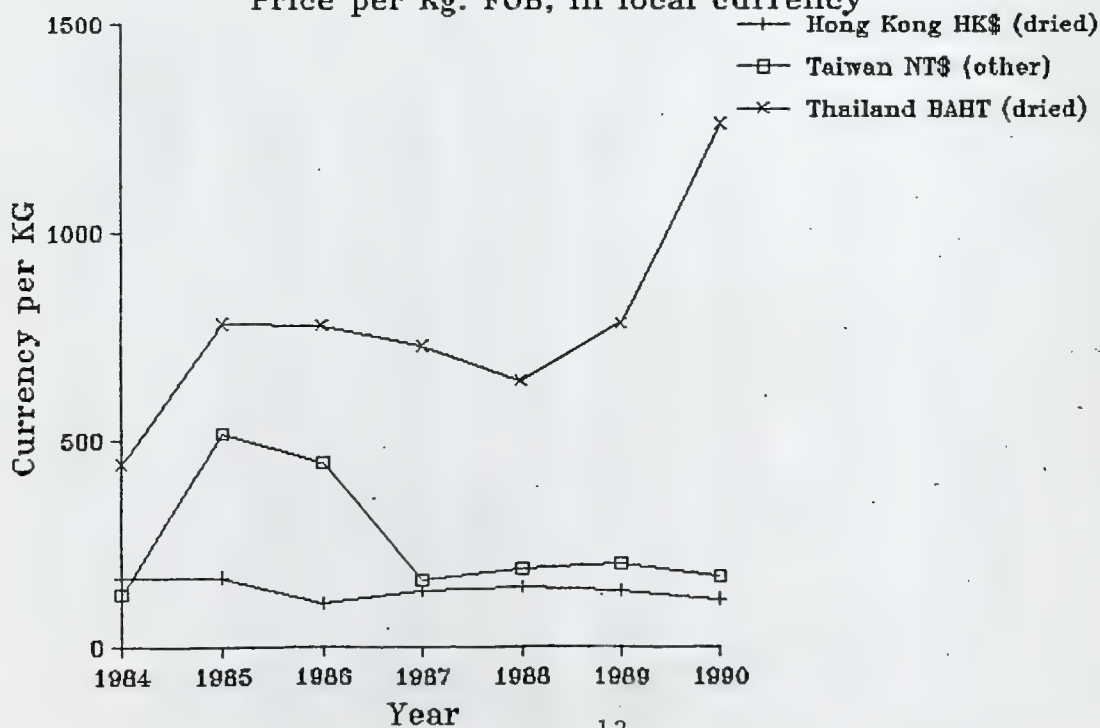


Figure 4.22 Price of Shark fin exports

Price per Kg. FOB, in local currency



However, for Singapore and Malaysia the 'other' products command a greater price per KG which may reveal a higher degree of processing than the 'dried' fins.

Figures 4.21 and 4.22 show changes in price per KG over the time period for a particular product category of each of the nations represented. The 'total' values were not used in this instance, as this may be misleading as it is an average of both categories, and each nation has a different proportion of 'dried' to 'other' products. The values are given in local currency as conversion to sterling via fluctuating exchange rates may distort the price pattern. As these currencies are different for each nation the relative positioning of the line on the graphs is purely arbitrary.

The countries selected for inclusion on the graphs are those for which records are complete over the longest time period. Other values can be found in Appendix III,c and IV,c. It should be noted that there are apparent inconsistencies in some of the values calculated. (See section 4.4).

Import price per KG rose for most of the countries, peaking around 1988. Hong Kong prices for dried fins virtually doubled over a three year period to 1988, but experienced a slight decline in 1990. Thailand had an even more rapid doubling in the import price of dried fins which peaked earlier in 1986, but which by 1990 had fallen below the 1984 value. Other countries such as Taiwan, and Singapore and Malaysia (not shown) record more steady import prices throughout.

Export price per KG has not followed such an easily defined pattern. Indonesia, Japan and Sri Lanka recorded continual improvements in price per KG (not shown), whilst Hong Kong experienced severe decline in price in 1986, which may suggest that the country's stocks of shark fin products for export were high. Thailand's export prices rose steeply in 1988 and 1989 compared to the other countries. Perhaps it was able to provide fins from a 'preferred' species of shark.

Over the study period Taiwan exported increasing quantities of fins despite the downward trend in price per KG it has experienced since 1985. This demonstrates a typical demand curve relationship, where price falls as the quantity available increases. Figure 4.23 shows the demand curve over the 7 year period based on all the available records and using the average price per KG of all 9 countries. Up until 1987 the price/quantity relationship holds true, but for some reason in 1988 and 1989 even though the quantities exported are still increasing the price shoots up, perhaps reflecting new popularity for the product, or the opening of new markets.

4.3 Identification of Major Suppliers and Consumers

A further analysis was undertaken to identify the origin of imports and destination of exports of the 9 countries. The import/export statistics provide these details along with the quantities and value from each source.

A great many of the countries identified in this way were found to be either exclusively suppliers or consumers of fins. Other

Figure 4.23 Shark fin demand curve
Based on the export records of the 9 countries examined

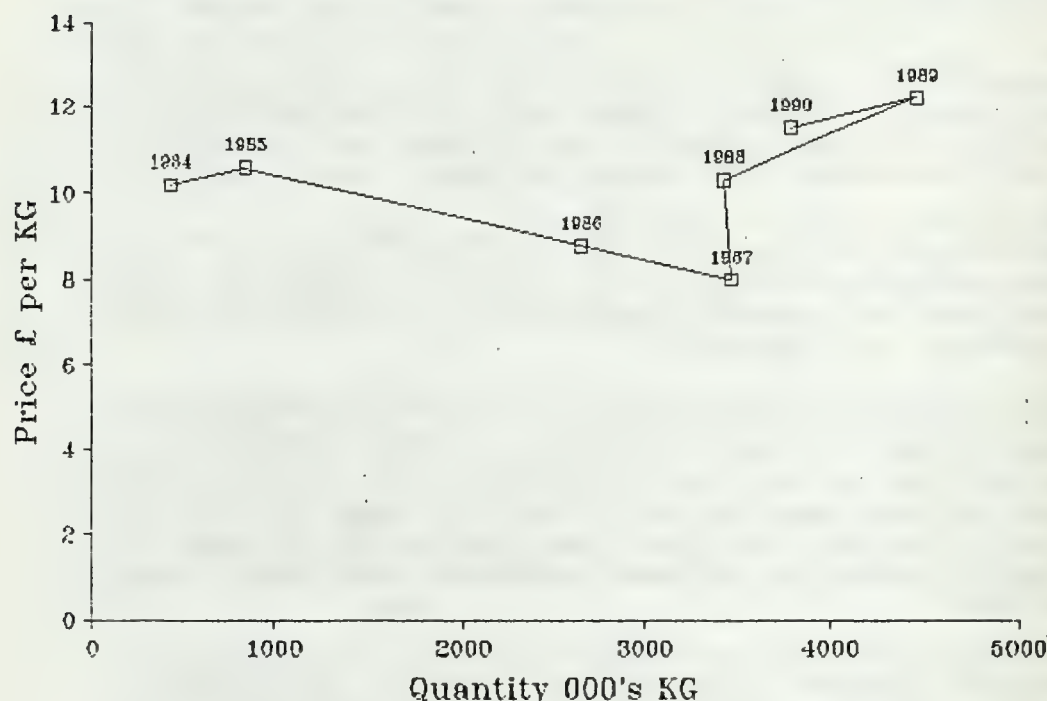


TABLE 4.31

Net producers and consumers of shark fins between 1986-1990, inferred from country of origin data given in the statistics of the 9 countries examined

NB: Countries in CAPITALS are mentioned in text as traditional importers or exporters of shark fins according to Cook (1990). Entries marked * represent countries for which EITHER imports OR exports ONLY were recorded.

Net Producer	Quantity (KG)	Net Producer	Quantity (KG)	Net Producer	Quantity (KG)	Net Consumer	Quantity (KG)
Japan	2217804	OMAN	100760	NIGERIA	15609	HONG KONG	6653133
Brazil	(*) 1127665	Norway	99396	Liberia	14638	CHINA	2049968
Indonesia	1123136	Germany (F.R.)	87412	Saudi Arabia	14591	Burma	319960
INDIA	* 1093671	Ghana	* 83017	Curacao	9561	Thailand	213761
PAKISTAN	916343	Australia	77105	Aruba	* 8566	TAIWAN	150871
USA	829561	Fiji	76864	Togo	* 8182	Brunei	53088
Spain	811469	Philippines	74747	Congo	* 7909	Canada	26188
Mexico	766701	Maldives	69977	Djibouti	* 7000	Guam	* 7184
United Arab Em.	728333	Mauritius	66384	FR/NL W. Indies	5947	Italy	852
South Africa	610684	Colombia	* 65066	Tanzania	* 5345	Sweden	* 753
Singapore	590167	New Zealand	* 60988	Madagascar	* 5000	Korea (Rep)	* 566
Gambia	(*) 586443	El Salvador	* 57006	America Sonora	* 4000	France	535
Unspecified	535378	Somalia	* 50796	New Caledonia	* 4000	Switzerland	466
Yemen (Arab Rep)	* 335200	Suriname	* 48183	Dominican Republic	2800	Austria	* 313
Peru	* 310878	Egypt	* 44615	Portugal	2331	Kuwait	* 52
South Korea	* 295647	Panama	43991	USSR	* 2000	Greece	* 45
Sri Lanka	(*) 272943	Trinidad & Tobago	40841	Mauritania	* 1803	Lebanon	* 38
Uruguay	* 269489	COSTA RICA	* 36785	Kiribati	* 1199	Cyprus	* 35
Ecuador	* 172146	Cuba	* 36219	Sudan	* 905	Iraq	* 35
Bangladesh	171322	Guatemala	* 36185	Sierra Leone	* 669	Denmark	* 25
Yemen (People Rep)	* 163500	Malagasy	32484	Guyana	* 565	Irish Republic	* 24
Venezuela	* 148371	United Kingdom	29721	Haiti	* 336	Paraguay	* 16
Benegal	* 144403	Ivory Coast	* 22884	Belgium	304	Papua New Guinea	16
Kenya	* 138951	Guinea	* 21793	Malaya	* 200	Zaire	* 15
Vietnam	131524	Netherlands	20510	Iceland	* 133		
West. Samoa	* 127638	Mozambique	* 20064	Guater	* 132		
Malaysia	122158	Solomon Islands	(*) 17418	Cameroon	116		
Seychelles	* 107998	Chile	* 17143	Swaziland	* 95		
Argentina	* 106774	Turkey	(*) 16508				
Macao	100784	Grenada	* 16286				

countries were both, but generally more of one than the other, and so could be classified as either a net supplier or a net consumer.

It was therefore possible to rearrange the data given in Table 4.11 in terms of net suppliers to the 9 countries, and net consumers of the 9 countries products. The results are given in Table 4.31 in order of decreasing magnitude. It must be noted that these results do not indicate the overall position of each nation's trade in shark fins, only trade with the 9 countries. There may well be trade between any of the other nations which causes the position to alter from net supplier to net consumer, or visa versa, in global terms. For example, Singapore and Macao were mentioned earlier in the text as consumers of fins, whereas they are shown in Table 4.31 as suppliers.

However, Singapore's trade statistics do show net imports of fins. The reason this country is shown in Table 4.31 as a net exporter is that it has a large proportion of imports from sources other than the other 8 countries from which the Table was compiled, namely India, Pakistan and Yemen. Similarly, Taiwan is shown in Table 4.31 as a net importer of fins, whereas, the trade statistics for that country show it as a net exporter. The major destination of exports from Taiwan is Japan. This highlights an anomaly in the records, as Japan does not appear to report any imports of shark fins. (This factor is discussed further under section 4.4).

Despite these limitations, Table 4.31 does give some idea of the source and destination of shark fins traded, along with an indication of the relative level of trade each nation is engaged in. It may be a more reliable measure for those nations (* -see Table) involved only in imports or exports.

According to Jack Jackson (pers. com.) the shark fin fisheries in Kenya and Yemen have existed for many years. Pacific islanders are now said to be fishing local sharks for fins for the Japanese market, and the same is happening in Ecuador. In the Philippines and Aden the practice of finning is said to be extensive. (No transactions involving Aden were identified by this study).

Figures 4.32 and 4.33 give a year by year analysis of some of the major consumers and suppliers identified in Table 4.31. Figure 4.32 which shows some of the largest consumers of shark fins exported by the 9 countries, bears out the comment by Cook (1990), mentioned earlier, that demand for fins in China has surged since economic restrictions were relaxed. Also notable is the increasing market in Burma.

The pattern of shark fin production shown in Figure 4.33 also appears to bear out Cook's comments that new sources of shark fins are being sought as quantities from traditional suppliers decline. The graph clearly shows a decrease in supply to the 9 countries from India and Pakistan in 1989 and 1990, whereas supplies from the United Arab Emirates and the USA in particular, have doubled in 4 years. This may explain the concern over the impact of the trade on shark populations voiced in the articles originating from the USA cited earlier in this report. Other countries which appear to have a relatively new and expanding export market for fins include Panama, Guatemala and New Zealand (see Appendix II for others).

Figure 4.32 Pattern of Shark fin consumption

Identified from the records of the 9 Countries examined

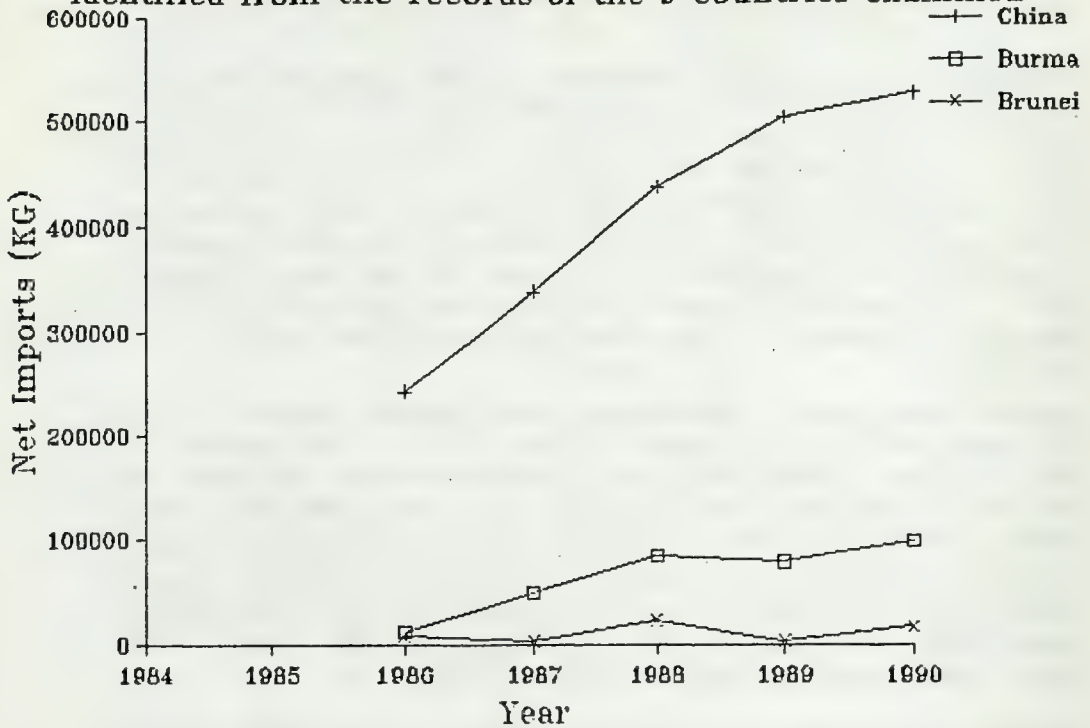


Figure 4.33 Pattern of Shark fin production

Identified from the records of the 9 Countries examined

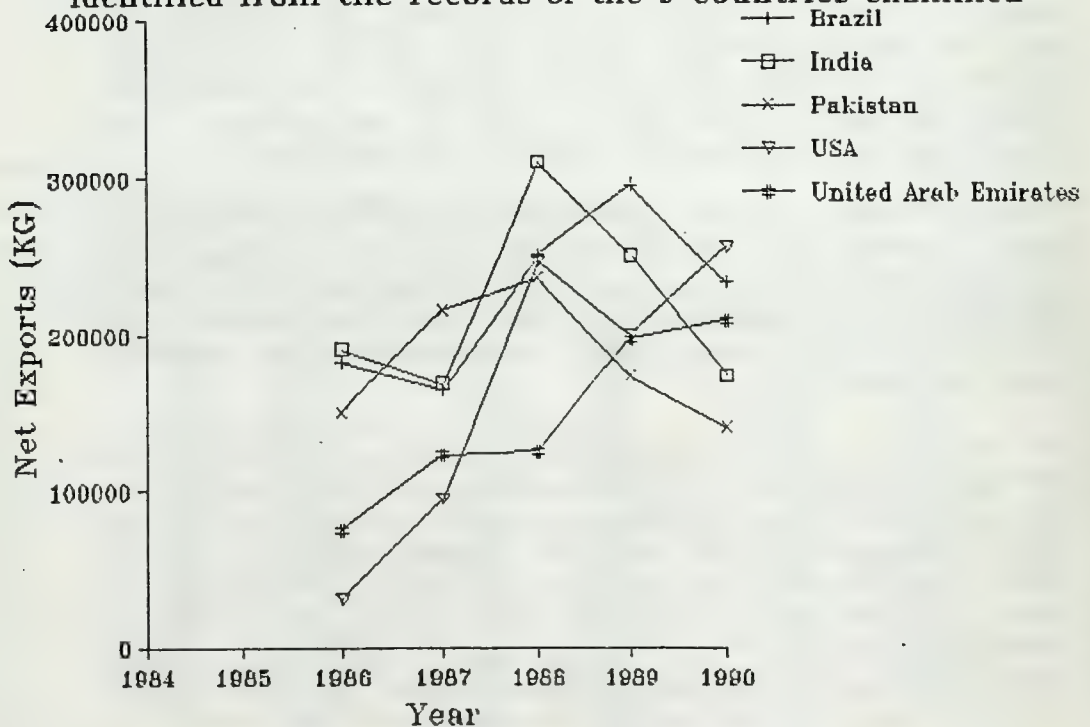


Figure 4.34 Number of Trading Partners
Identified from the records of the 9 Countries examined

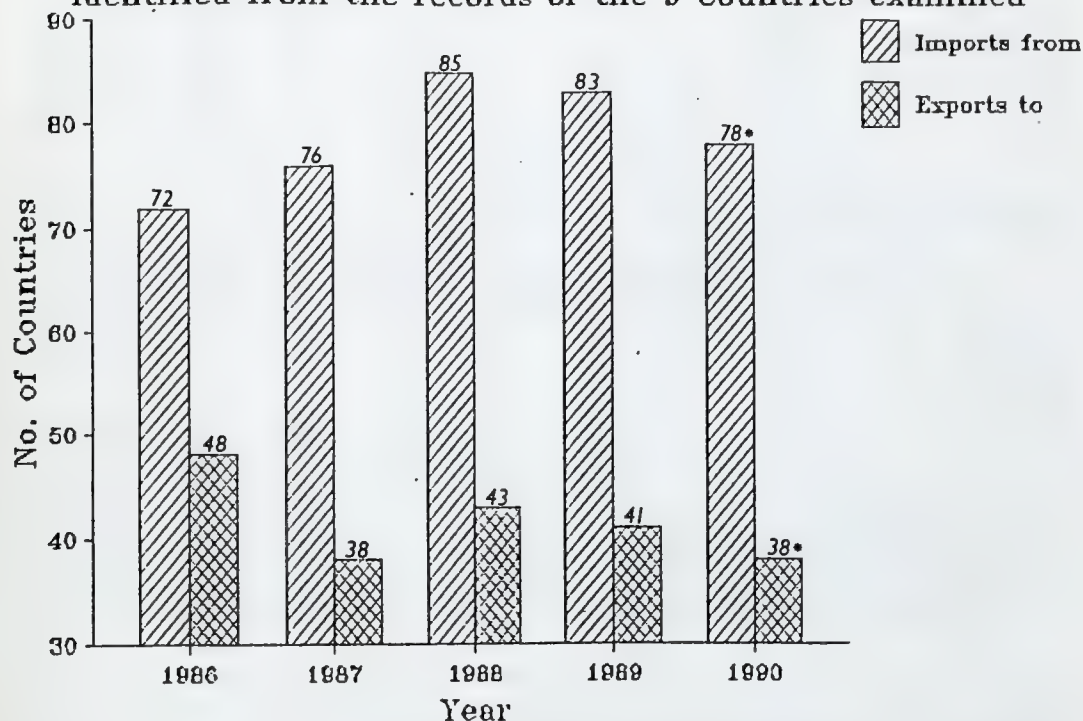


TABLE 4.41

COMPARISON OF THE QUANTITIES (KG) REPORTED BY EACH COUNTRY EXAMINED WITH
THE RECORDS OF THE OTHER 8 COUNTRIES

	1986 Import	1986 Export	1987 Import	1987 Export	1988 Import	1988 Export	1989 Import	1989 Export
Hong Kong reports	2879084	596658	3552634	846285	3737923	1207071	3553966	1434110
other countries	1371550	567111	1648540	237153	1273064	105068	1954292	157479
Indonesia reports	0	429248	50	546763	3	458442	4000	516511
other countries	0	125547	0	222371	0	298106	0	314551
Japan reports	0	710667	0	632189	0	527470	0	503042
other countries	47132	886984	158425	845382	237097	672814	415031	580639
Malaysia reports	73460	280	64660	13060	73010	8300	91140	11320
other countries	122756	390	164604	33930	109367	707769	81792	1260
Republic of Korea	0	79236	1250	60100	6067	51028	7934	35932
other countries	823	53185	0	61886	18150	92500	10287	53599
Singapore reports	869118	750459	1198381	1122279	1925016	920358	1234360	1573549
other countries	487968	582440	645046	822989	505406	675589	545713	585181
Sri Lanka reports	0	35512	0	52978	0	49159	0	53942
other countries	0	42830	0	50578	0	56331	0	67245
Taiwan reports	2600	9368	20366	150608	103498	149857	125662	287450
other countries	94439	32997	16282	65611	90107	21287	83584	35171
Thailand reports	94978	37024	104573	42069	131462	52890	83584	35171
other countries	104180	32997	97583	42042	103498	149857	100657	43024

Table 4.42

EXPORTS TO JAPAN NOT APPARENTLY REPORTED AS IMPORTS IN JAPAN'S TRADE STATISTICS

	1986 Others	1986 Japan	1987 Others	1987 Japan	1988 Others	1988 Japan	1989 Others	1989 Japan
Hong Kong	16892	0	41155	0	45360	0	65352	0
Indonesia	0	0	394	0	7543	0	12130	0
Malaysia	0	0	0	0	10	0	0	0
Republic of Korea	30240	0	0	0	6504	0	2040	0
Singapore	0	0	2479	0	25669	0	43117	0
Sri Lanka	0	0	495	0	0	0	7948	0
Taiwan	0	0	113100	0	149575	0	282891	0
Thailand	0	0	802	0	2436	0	1553	0
Total	47132	0	158425	0	237097	0	415031	0

DISCREPANCIES BETWEEN EXPORT STATISTICS REPORTED BY JAPAN WITH IMPORTS
RECORDED BY THE OTHER 8 COUNTRIES EXAMINED (QUANTITIES: KG)

	1986 Others	1986 Japan	1987 Others	1987 Japan	1988 Others	1988 Japan	1989 Others	1989 Japan
Hong Kong	655318	612695	654681	537405	527102	442814	474144	421600
Indonesia	0	0	0	0	2	0	0	0
Malaysia	130	0	30	0	80	0	240	0
Republic of Korea	0	820	1200	0	0	0	414	413
Singapore	139000	92844	104000	87254	91310	59008	90205	67373
Sri Lanka	0	0	0	0	0	0	0	0
Taiwan	300	0	1200	500	3767	1839	4258	302
Thailand	92236	810	84271	4877	50553	15954	11378	9682
To other Markets	886984	707169	845382	630036	672814	519615	580639	499370
		3498		2153		7855		3672
Total reported by Japan		710667		632189		527470		503042
Potentially under-reported		179815		215346		153199		81269
% under-reported		25.30		34.06		29.04		16.16

Table 4.43

DISCREPANCIES BETWEEN IMPORT STATISTICS REPORTED BY MALAYSIA WITH EXPORTS
RECORDED BY THE OTHER 8 COUNTRIES EXAMINED (QUANTITIES: KG)

	1986 Others	1986 Malaysia	1987 Others	1987 Malaysia	1988 Others	1988 Malaysia	1989 Others	1989 Malaysia
Hong Kong	2025	2680	523	910	246	780	960	1420
Indonesia	13042	48760	22941	47110	35900	48840	31273	50840
Japan	0	130	0	30	0	80	0	240
Republic of Korea	0	40	0	40	0	0	0	0
Singapore	107689	8730	141084	10210	70215	19170	49559	33260
Sri Lanka	0	0	0	0	0	0	0	40
Taiwan	0	20	0	0	0	360	0	10
Thailand	0	2380	56	4420	3006	3300	0	490
From other Markets	122756	62740	164604	62720	109367	72530	81792	86300
		10720		1940		480		4840
Total reported by Malaysia		73460		64660		73010		91140
Potentially under-reported		60016		101884		36837		-4508
% under-reported		81.70		157.57		50.45		

DISCREPANCIES BETWEEN EXPORT STATISTICS REPORTED BY MALAYSIA WITH IMPORTS
RECORDED BY THE OTHER 8 COUNTRIES EXAMINED (QUANTITIES: KG)

	1986 Others	1986 Malaysia	1987 Others	1987 Malaysia	1988 Others	1988 Malaysia	1989 Others	1989 Malaysia
Hong Kong	390	0	3830	1220	862	10	0	150
Indonesia	0	0	0	0	0	0	0	0
Japan	0	0	0	0	0	10	0	0
Republic of Korea	0	0	0	0	0	0	0	2770
Singapore	0	280	30000	11470	705000	1190	0	880
Sri Lanka	0	0	0	0	0	0	0	0
Taiwan	0	0	100	0	1907	1060	1260	40
Thailand	0	0	0	0	0	0	0	30
To other Markets	390	280	33930	12690	707769	2270	1260	3870
		0		370		6030		7450
Total reported by Malaysia		280		13060		8300		11320
Potentially under-reported		110		21240		705499		-2610
% under-reported		39.29		162.63		8499.99		

In an attempt to ascertain whether the number of nations participating in the fin trade is increasing, the number of nations trading with the 9 countries in each year was examined. Figure 4.34 displays this information. As can be seen the number of countries contributing to the supply far exceeds those nations that are consumers.

Imports were recorded from 85 countries in 1988, but the number of sources has slightly decreased since then. It may be worthwhile in a future study to further determine whether traditional supplies are declining and if new sources of fins are taking over, and whether more countries will take up the trade. (NB: The totals given for 1990 may be slightly low as Malaysia's data for that year was unavailable).

4.4 Quality of the Trade Statistics

In order to determine the reliability of the trade statistics presented by each of the 9 countries, comparison was made of the quantities reported by each country in turn with the corresponding records of the remaining 8 countries. The results given in Table 4.41 provides only a rough analysis, as the totals reported by the country in question obviously include imports and exports from sources other than just the remaining 8 countries. However, it is interesting to note that trade between these 9 nations accounts for a fairly high proportion of their total trade.

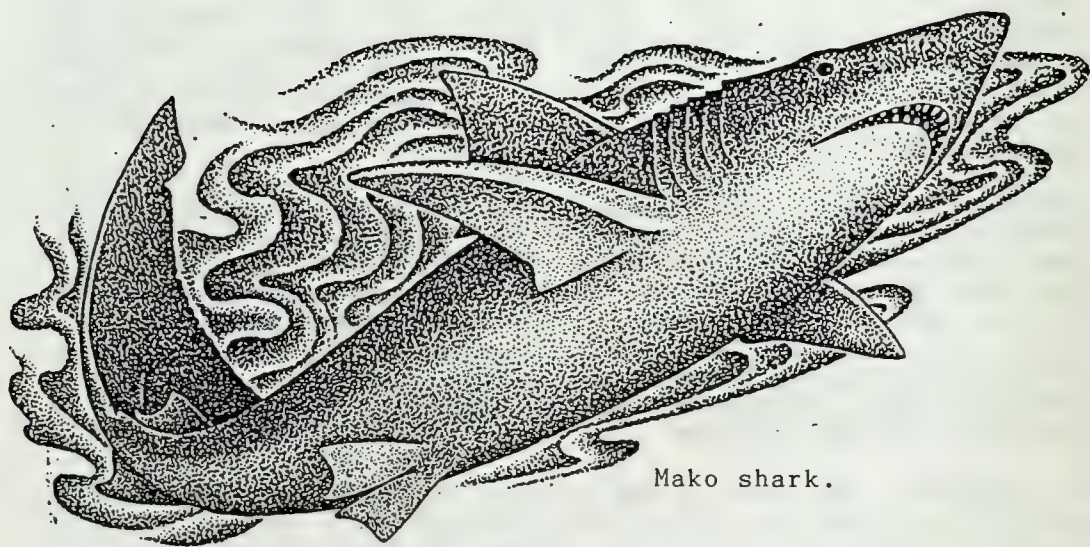
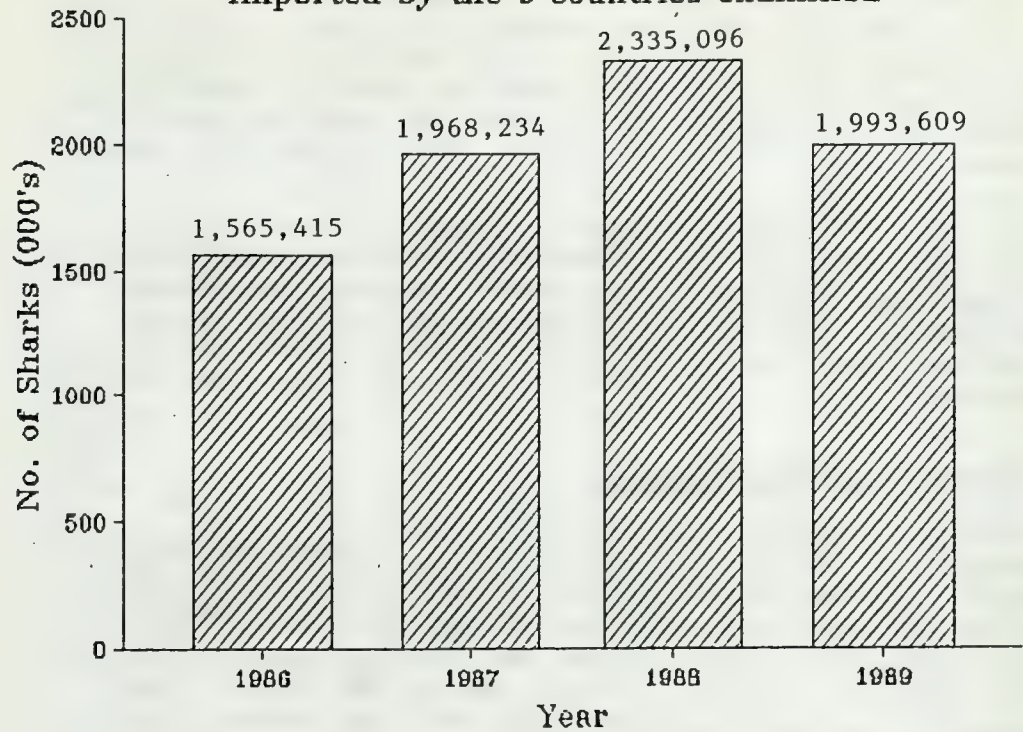
Table 4.41 reveals certain anomalies. For example, as mentioned earlier, no imports of shark fins were identified from Japan's trade statistics, however, several of the other 8 countries reported exports of fins to Japan. In addition, the other 8 countries reported imports from Japan in excess of the total quantity of shark fins which Japan reported exporting. By isolating the quantity of fins sent to other markets it was possible to assess what percentage of exports were potentially under-reported by Japan. These are given in Table 4.42.

Similar discrepancies can be found in some years for some of the other countries, but Malaysia's trade statistics are also at particular variance with the records of the other countries. These are summarised in Table 4.43. Here it is interesting to note that up until 1989 the other 8 countries consistently reported greater trade with Malaysia than Malaysia's trade statistics show, but in 1989 the situation is reversed. This may be due the changes in commodity codes referred to earlier, resulting in this case in apparently improved reporting.

As previously mentioned it was difficult to ensure that commodity codes for all shark fin products were accounted for, and it is therefore difficult to determine whether the discrepancies in the two examples, or in any of the other country's records is due to the original preparation or present collation of the data.

As previously mentioned, the quantity of shark fins exported by one country should in theory, equate to the quantity imported by the recipient (and visa versa), but there are legitimate reasons that differences in the annual figures reported do occur. For example, a shipment exported by one country at the end of a year may not actually arrive in the country of destination until the following

Figure 5.01 Estimated number of Sharks imported by the 9 countries examined



Mako shark.

year, and therefore although the transaction correlates, it may appear in the trade statistics in two different years.

A notable problem encountered was with Singapore's trade statistics, as on occasion the analysis provided did not sum to the total stated. Also, calculations of price per KG produced odd results in some instances, for example, Indonesia 1988 imports and Hong Kong 1984 and 1985 'other' imports (see Appendix III.c.) which were out of line with the other records and suggest errors in the data. This may provide an explanation as to why the price patterns shown in Figures 4.21 and 4.22 are so variable.

These general limitations in the statistics need to be taken into account when considering the pattern of international trade in shark fins, particularly with regard to possible under-reporting of imports or exports. Obviously if trade statistics for more countries and more years could be found and added to these records this would enhance the accuracy of the data presented and further define areas of discrepancy.

5.0 DISCUSSION

Many factors have served to frustrate efforts to determine any trends in the shark fin trade from the figures presented, particularly the reduction in the number of year's statistics which are available from the Export Market information Library, and the changes in commodity code classifications.

Indications from the results (Figures 4.12 and 4.13) are that a slight downturn in trade may be occurring, although there are really too few years' records to say this with any certainty. If the volume of trade has peaked, it needs to be established whether this is due to saturation of demand (which would be suggested by a decline in prices) or due to difficulty in obtaining supplies (which would be suggested by an accompanying rise in price as the commodity becomes more scarce). The price patterns revealed by this study presents rather an unclear picture in this respect.

What also needs to be verified is whether there is a changing pattern in supply. That is, are shark populations in some regions being over exploited, causing a switch to sources presently more abundant elsewhere? The figures presented in section 4.3 (Figure 4.33) suggests that this may be the case. The change in the pattern of supply may also be manifesting itself in a change in the products traded (Figure 4.15), which the figures given here also appear to support. (Perhaps indicating a change in the species composition as well as a change in the geographical range fished).

It may be relevant to consider why new nations are being attracted into the shark fin market. Barries Deas of the National Federation of Fishermen's Organisations suggests this may be due to poor management of inshore fisheries (pers. com.). Cook (1990) suggests that in the USA 'interest in shark fishing ... came from fishermen geared with pelagic line equipment for tuna and swordfish. As those fisheries encountered declining stocks and increased regulation, there was a concerted effort undertaken....to locate a targetable species which was compatible with the gear already fitted' (Cook, 1990).

If shark stocks in some areas are being over exploited, how long will the new fisheries be able to meet the demand for fins before their shark populations begin to suffer? This will depend on how the pattern of consumption changes. Most important may be how much more the demand for fins rises in China in particular (see Figure 4.32), but also in Burma, the USA, Canada and Europe (which presently has a fairly low, but increasing, interest in fins).

A very rough calculation was suggested by Dr Keith Bannister (pers. com.) to give an indication of the number of sharks the quantities of fins traded by the 9 countries represents. This is 2.5KG of dried fins (or 5KG of 'wet' fins) per 150KG shark. The calculation was carried out on the total quantity imported by the 9 countries from 1986 to 1989. The results are given in Figure 5.01.

However, it must be remembered that this report has concentrated only on fins, as the highest value shark product, and the number of sharks shown in Figure 5.01 in no way represents the total number of sharks traded. As mentioned earlier Greenpeace Australia calculated that in 1988 Korean and Taiwanese fishing fleets killed over 2.25 million blue sharks alone, whilst fishing for squid. Where sharks are taken as unwanted by-catch, or where 'finning' is carried out, there may be a high element of wastage of shark resources. Therefore even if all the shark products landed were taken into account, the number of sharks in international trade may represent only a portion of the total number that are being lost from the seas.

6.0 CONCLUSIONS

It is probably not prudent to attempt to draw conclusions from the narrow range of data presented. Even if a wider reaching study is possible, the results would represent after-the-fact observations, which require further interpretation to gauge the impact the international trade in fins may be having on shark populations.

This kind of study may provide warnings that changes in supply and demand are occurring, and alert the need for further monitoring. However, the first-hand observations of marine scientists are likely to be more reliable in determining trends in shark populations, as well as more current. Their findings need to be acted on, rather than those of the statistician, which may come too late to protect various populations of shark species from over exploitation.

That being said, there is obviously an important requirement for long term monitoring in wildlife conservation and the statistics have a value in this respect. However it is the observations that should count, supported by figures. The figures should not be elevated to a higher position by those with the capacity to introduce controlling regulations.

7.0 RECOMMENDATIONS

In order to determine any possible effect trade in shark fins or any other shark product may be having on shark populations, there is a need for further research, incorporating a greater time period, to determine the global utilisation of sharks as outlined in section

4.1. This would require an extensive analysis of trade and fishery statistics. Such an analysis would only be of value if shark numbers are also quantified globally, to provide a base line for comparison, and it is not known if this type of data is available.

A future study would also be beneficial to attempt to establish the extent of finning and the relative value of the fins compared to the rest of the carcass in different markets, as it may be that complete utilisation of the shark occurs in some geographical regions and not others. The fate of sharks caught as a by-catch also needs to be investigated. Both these studies would help to determine the level of shark resources that are wasted.

An analysis species by species, and region by region, would be desirable to identify those populations at particular risk, but a global overview may be all that is at this time, potentially possible. Manire and Gruber (1990) state 'sharks are (currently) treated as a group because the present state of knowledge precludes a management by species approach'.

The difficulties involved in carrying out such an enquiry are not underestimated. Although individual responsible nations may apply restrictions on the fishing of local shark stocks to protect them, it may be that international trade will require international trade controls. The Great White Shark Carcharodon carcharias, popular with trophy hunters, (and of which there are only around 2,000 left) was proposed for CITES listing but failed, as there was no conclusive evidence that it was threatened by international trade (Keith Bannister, pers. com.). Shark fins are very much the subject of international trade and it may be that the value in such a study would be to ascertain if any of the shark species which are currently causing concern to marine scientists could in fact benefit from CITES listing.

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APPENDIX I

Summary of Shark Data Book by Year

NOTES:

1. All figures refer to quantities of shark fins in KG.
2. 'Reported by': are the total quantities of shark fins reported under the commodity codes given in Table 3.01, by each of the 9 countries examined.
3. 'Other country': denotes quantities traded by other nations with the 9 countries examined, and represents the origin of their cumulative imports and exports.
3. The statistics did not always differentiate the Arab Republic of Yemen from the People's Republic of Yemen, and therefore the split between these two countries may be unreliable.
4. Any quantities for which the origin was not given in sufficient detail e.g. 'Africa' or 'Oceania' were entered as 'unspecified'.

SHARK FIN DATA BOOK SUMMARY...No: S3

BY YEAR

nb: n/a = figures not available at Export Market Information Library

YEAR	COUNTRY	REF	OTHER COUNTRY		REPORTED BY	
			IMPORTS	EXPORTS	IMPORTS	EXPORTS
1984	Australia	A1	2802	3403		
1984	Argentina	A2		0		
1984	America Samoa	A3		0		
1984	Aruba	A4		0		
1984	Austria	A5	0			
1984	Brazil	B1	0	141797		
1984	Brunei	B2	1625	0		
1984	Bangladesh	B3		13209		
1984	Burma	B4	0	100		
1984	Bahrein	B5	0			
1984	Belgium	B6	185	0		
1984	Benin	B7		0		
1984	Canada	C1	7053	11524		
1984	Cameroon	C10	0	0		
1984	China	C2	84600	31731		
1984	Cyprus	C3	19	75		
1984	Chile	C4		184		
1984	Colombia	C5		0		
1984	Costa Rica	C6		3933		
1984	Cuba	C7		6455		
1984	Curacao	C8	70	3771		
1984	Congo	C9		0		
1984	Djibouti	D1		0		
1984	Dominican Rep.	D2		0		
1984	Denmark	D3	0			
1984	Ecuador	E1		68805		
1984	Egypt	E2		2640		
1984	El Salvador	E3		5535		
1984	Fiji	F1	18	8461		
1984	France	F2	174	587		
1984	FR/NL. W. Indies	F3	3	0		
1984	Guam	G1	0			
1984	Guatamala	G2		0		
1984	Germany (F. R.)	G3	1385	7400		
1984	Gambia	G4	0	61940		
1984	Ghana	G5		5163		
1984	Guinea	G6		0		
1984	Guyana	G7		463		
1984	Grenada	G8		0		
1984	Greece	G9	0			
1984	Hong Kong	H1	4602	19090	2778978	398236
1984	Haiti	H2		340		
1984	Honduras	H3		1425		
1984	Indonesia	I1	0	245695	n/a	n/a
1984	India	I2	0	55118		
1984	Ivory Coast	I3		0		
1984	Italy	I4	0	0		
1984	Iraq	I5	0			
1984	Iceland	I6		0		

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YEAR	COUNTRY	REF	OTHER COUNTRY		REPORTED BY	
			IMPORTS	EXPORTS	IMPORTS	EXPORTS
1984	Irish Republic	I7	0			
1984	Japan	J1	12545	1038456	n/a	n/a
1984	Jordan	J2	275			
1984	Korea: North	K1	128			
1984	Kenya	K2		1371		
1984	Kiribati	K3		0		
1984	Kuwait	K4	0			
1984	Liberia	L1	0	249		
1984	Lebanon	L2	0			
1984	Malaya	M1		0		
1984	Mauritania	M10		0		
1984	Malaysia	M2	10601	230	274810	2130
1984	Mauritius	M3	118	8900		
1984	Maldives	M4	0	0		
1984	Mexico	M5	297	115929		
1984	Mozambique	M6		0		
1984	Malagasey	M7	0	6563		
1984	Madagascar	M8		0		
1984	Macau	M9	33	24671		
1984	New Zealand	N1	151	0		
1984	Nigeria	N2	0	607		
1984	New Caledonia	N3		0		
1984	Norway	N4	24	17360		
1984	Netherlands	N5	469	0		
1984	Oman	O1	10	956		
1984	Philippines	P1	0	6038		
1984	Pakistan	P2	0	33036		
1984	Peru	P3		29410		
1984	Panama	P4	114	12461		
1984	Papua New Guinea	P5	30	0		
1984	Portugal	P6	0	413		
1984	Paraguay	P7	0			
1984	Quatar	Q1		0		
1984	South Korea	S1	150	5366	n/a	n/a
1984	Solomon Islands	S10	10	15264		
1984	Somalia	S11		6851		
1984	Suriname	S12		5420		
1984	Senegal	S13		39829		
1984	Sudan	S14		900		
1984	Sierra Leone	S15		0		
1984	Sweden	S16	86			
1984	Singapore	S2	194148	317760	n/a	n/a
1984	South Africa	S3	45	151823		
1984	Switzerland	S4	24	0		
1984	Spain	S5	100	172256		
1984	Saudi Arabia	S6	54	0		
1984	Sri Lanka	S7	16	1250	n/a	n/a
1984	Swaziland	S8		0		
1984	Seychelles	S9		642		

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YEAR	COUNTRY	REF	OTHER COUNTRY		REPORTED BY	
			IMPORTS	EXPORTS	IMPORTS	EXPORTS
1984	Thailand	T1	68601	6420	84752	20683
1984	Taiwan	T2	252	12367	2100	16867
1984	Tanzania	T3		4311		
1984	Turkey	T4	0	0		
1984	Trinidad & Tobago	T5	170	8783		
1984	Togo	T6		0		
1984	USA	U1	41319	71009		
1984	Unspecified	U2	47	96956		
1984	United Arab Em	U3	101	43249		
1984	United Kingdom	U4	5432	877		
1984	USSR	U5		0		
1984	Uruguay	U6		67230		
1984	Vietnam	V1	0	81596		
1984	Venezuela	V2		32697		
1984	West. Samoa	W1		290		
1984	Yemen (Arab Rep)	Y1		0		
1984	Yemen (Peop Rep)	Y2		2000		
1984	Zaire	Z1	30			
	TOTAL 1984		437916	3140640	3140640	437916
1985	Australia	A1	2016	3350		
1985	Argentina	A2		0		
1985	America Samoa	A3		0		
1985	Aruba	A4		0		
1985	Austria	A5	0			
1985	Brazil	B1	0	139547		
1985	Brunei	B2	804	0		
1985	Bangladesh	B3		5953		
1985	Burma	B4	0	150		
1985	Bahrein	B5	36			
1985	Belgium	B6	58	0		
1985	Benin	B7		200		
1985	Canada	C1	10507	22046		
1985	Cameroon	C10	0	0		
1985	China	C2	133028	35114		
1985	Cyprus	C3	0			
1985	Chile	C4		1710		
1985	Colombia	C5		1406		
1985	Costa Rica	C6		0		
1985	Cuba	C7		11732		
1985	Curacao	C8	35	0		
1985	Congo	C9		0		
1985	Djibouti	D1		0		
1985	Dominican Rep.	D2		4654		
1985	Denmark	D3	0			
1985	Ecuador	E1		46227		
1985	Eygpt	E2		2500		
1985	El Salvador	E3		4900		

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YEAR	COUNTRY	REF	OTHER COUNTRY		REPORTED BY	
			IMPORTS	EXPORTS	IMPORTS	EXPORTS
1985	Fiji	F1	25	8860		
1985	France	F2	269	2000		
1985	FR/NL. W. Indies	F3	0	777		
1985	Guam	G1	0			
1985	Guatamala	G2		305		
1985	Germany (F. R.)	G3	2408	8593		
1985	Gambia	G4	4800	51261		
1985	Ghana	G5		2661		
1985	Guinea	G6		0		
1985	Guyana	G7		410		
1985	Grenada	G8		0		
1985	Greece	G9	0			
1985	Hong Kong	H1	75698	10556	2648187	427274
1985	Haiti	H2		0		
1985	Honduras	H3		0		
1985	Indonesia	I1	0	175904	0	326918
1985	India	I2	0	29784		
1985	Ivory Coast	I3		9976		
1985	Italy	I4	0	0		
1985	Iraq	I5	37			
1985	Iceland	I6		491		
1985	Irish Republic	I7	0			
1985	Japan	J1	14477	895415	n/a	n/a
1985	Jordan	J2	0			
1985	Korea (Rep)	K1	50			
1985	Kenya	K2		0		
1985	Kiribati	K3		0		
1985	Kuwait	K4	0			
1985	Liberia	L1	40	664		
1985	Lebanon	L2	0			
1985	Malaya	M1		0		
1985	Mauritania	M10		0		
1985	Malaysia	M2	32614	0	162090	2090
1985	Mauritius	M3	109	3300		
1985	Maldives	M4	0	0		
1985	Mexico	M5	99	106994		
1985	Mozambique	M6		172		
1985	Malagasey	M7	21	1723		
1985	Madagascar	M8		0		
1985	Macau	M9	300	45348		
1985	New Zealand	N1	144	10		
1985	Nigeria	N2	36	1606		
1985	New Caledonia	N3		0		
1985	Norway	N4	50	10720		
1985	Netherlands	N5	317	0		
1985	Oman	O1	40	644		
1985	Philippines	P1	0	5269		
1985	Pakistan	P2	0	26054		
1985	Peru	P3		10009		

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YEAR	COUNTRY	REF	OTHER COUNTRY		REPORTED BY	
			IMPORTS	EXPORTS	IMPORTS	EXPORTS
1985	Panama	P4	0	1130		
1985	Papua New Guinea	P5	9	0		
1985	Portugal	P6	0	0		
1985	Paraguay	P7	0			
1985	Quatar	Q1		0		
1985	South Korea	S1	304	2589	90	39998
1985	Solomon Islands	S10	0	9323		
1985	Somalia	S11		11110		
1985	Suriname	S12		10067		
1985	Senegal	S13		43340		
1985	Sudan	S14		0		
1985	Sierra Leone	S15		0		
1985	Sweden	S16	152			
1985	Singapore	S2	449843	399420	n/a	n/a
1985	South Africa	S3	10	139456		
1985	Switzerland	S4	108	0		
1985	Spain	S5	20	189699		
1985	Saudi Arabia	S6	20	0		
1985	Sri Lanka	S7	0	671	0	26353
1985	Swaziland	S8		0		
1985	Seychelles	S9		1870		
1985	Thailand	T1	90380	17008	96766	22382
1985	Taiwan	T2	700	16342	1097	676
1985	Tanzania	T3		714		
1985	Turkey	T4	0	0		
1985	Trinidad & Tobago	T5	457	5039		
1985	Togo	T6		8092		
1985	USA	U1	21768	74559		
1985	Unspecified	U2	165	95272		
1985	United Arab Em	U3	65	28037		
1985	United Kingdom	U4	3642	750		
1985	USSR	U5		0		
1985	Uruguay	U6		83169		
1985	Vietnam	V1	0	54353		
1985	Venezuela	V2		27225		
1985	West. Samoa	W1		0		
1985	Yemen (Arab Rep)	Y1		0		
1985	Yemen (Peop Rep)	Y2		0		
1985	Zaire	Z1	30			
	TOTAL 1985		845691	2908230	2908230	845691
1986	Australia	A1	5995	5251		
1986	Argentina	A2		12792		
1986	America Samoa	A3		0		
1986	Aruba	A4		6149		
1986	Austria	A5	33			
1986	Brazil	B1	32	182616		
1986	Brunei	B2	8454	660		

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YEAR	COUNTRY	REF	OTHER COUNTRY		REPORTED BY	
			IMPORTS	EXPORTS	IMPORTS	EXPORTS
1986	Bangladesh	B3		73252		
1986	Burma	B4	12000	0		
1986	Bahrein	B5	0			
1986	Belgium	B6	57	0		
1986	Benin	B7		0		
1986	Canada	C1	19610	9590		
1986	Cameroon	C10	7	0		
1986	China	C2	333991	91494		
1986	Cyprus	C3	0			
1986	Chile	C4		2279		
1986	Colombia	C5		7259		
1986	Costa Rica	C6		4800		
1986	Cuba	C7		12833		
1986	Curacao	C8	11	0		
1986	Congo	C9		0		
1986	Djibouti	D1		0		
1986	Dominican Rep.	D2		2800		
1986	Denmark	D3	18			
1986	Ecuador	E1		47789		
1986	Egypt	E2		7850		
1986	El Salvador	E3		7652		
1986	Fiji	F1	69	14900		
1986	France	F2	3610	790		
1986	FR/NL W. Indies	F3	10	4495		
1986	Guam	G1	48			
1986	Guatemala	G2		506		
1986	Germany (F. R.)	G3	2410	10644		
1986	Gambia	G4	0	63365		
1986	Ghana	G5		6618		
1986	Guinea	G6		1359		
1986	Guyana	G7		0		
1986	Grenada	G8		0		
1986	Greece	G9	0			
1986	Hong Kong	H1	1371550	56711	2879084	596658
1986	Haiti	H2		0		
1986	Honduras	H3		0		
1986	Indonesia	I1	0	125547	0	429248
1986	India	I2	0	190823		
1986	Ivory Coast	I3		2429		
1986	Italy	I4	0	0		
1986	Iraq	I5	35			
1986	Iceland	I6		133		
1986	Irish Republic	I7	0			
1986	Japan	J1	47132	886984	0	710667
1986	Jordan	J2	0			
1986	Korea (Rep)	K1	30			
1986	Kenya	K2		19731		
1986	Kiribati	K3		0		
1986	Kuwait	K4	52			

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YEAR	COUNTRY	REF	OTHER COUNTRY		REPORTED BY	
			IMPORTS	EXPORTS	IMPORTS	EXPORTS
1986	Liberia	L1	0	5339		
1986	Lebanon	L2	0			
1986	Malaya	M1		0		
1986	Mauritania	M10		0		
1986	Malaysia	M2	122756	390	73460	280
1986	Mauritius	M3	190	14150		
1986	Maldives	M4	5	19575		
1986	Mexico	M5	198	129815		
1986	Mozambique	M6		1063		
1986	Malagasey	M7	15	900		
1986	Madagascar	M8		0		
1986	Macau	M9	258	33801		
1986	New Zealand	N1	95	6327		
1986	Nigeria	N2	129	2315		
1986	New Caledonia	N3		2000		
1986	Norway	N4	240	11642		
1986	Netherlands	N5	474	3172		
1986	Oman	O1	8	0		
1986	Philippines	P1	75	13837		
1986	Pakistan	P2	100	150308		
1986	Peru	P3		16517		
1986	Panama	P4	34	0		
1986	Papua New Guinea	P5	0	40		
1986	Portugal	P6	10	0		
1986	Paraguay	P7	0			
1986	Quatar	Q1		0		
1986	South Korea	S1	823	53185	0	79236
1986	Solomon Islands	S10	0	6906		
1986	Somalia	S11		8850		
1986	Suriname	S12		20990		
1986	Senegal	S13		22074		
1986	Sudan	S14		0		
1986	Sierra Leone	S15		0		
1986	Sweden	S16	192			
1986	Singapore	S2	487968	582440	869118	750459
1986	South Africa	S3	0	123045		
1986	Switzerland	S4	75	0		
1986	Spain	S5	0	203558		
1986	Saudi Arabia	S6	58	0		
1986	Sri Lanka	S7	0	42830	0	35512
1986	Swaziland	S8		0		
1986	Seychelles	S9		7850		
1986	Thailand	T1	104180	48872	94978	37024
1986	Taiwan	T2	94439	32997	2800	9368
1986	Tanzania	T3		200		
1986	Turkey	T4	12	3000		
1986	Trinidad & Tobago	T5	232	15406		
1986	Togo	T6		3409		
1986	USA	U1	22188	53783		

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YEAR	COUNTRY	REF	OTHER COUNTRY		REPORTED BY	
			IMPORTS	EXPORTS	IMPORTS	EXPORTS
1986	Unspecified	U2	4940	109789		
1986	United Arab Em	U3	50	75493		
1986	United Kingdom	U4	3554	6582		
1986	USSR	U5		0		
1986	Uruguay	U6		83202		
1986	Vietnam	V1	0	32205		
1986	Venezuela	V2		25482		
1986	West. Samoa	W1		0		
1986	Yemen (Arab Rep)	Y1		30000		
1986	Yemen (Peop Rep)	Y2		56000		
1986	Zaire	Z1	0			
	TOTAL 1986		2648452	3919440	3919440	2648452
1987	Australia	A1	3468	15057		
1987	Argentina	A2		11153		
1987	America Samoa	A3		4000		
1987	Aruba	A4		2417		
1987	Austria	A5	72			
1987	Brazil	B1	0	164877		
1987	Brunei	B2	3078	0		
1987	Bangladesh	B3		39744		
1987	Burma	B4	48960	300		
1987	Bahrein	B5	0			
1987	Belgium	B6	41	0		
1987	Benin	B7		0		
1987	Canada	C1	20222	9643		
1987	Cameroon	C10	0	0		
1987	China	C2	575340	236395		
1987	Cyprus	C3	30			
1987	Chile	C4		3121		
1987	Colombia	C5		7000		
1987	Costa Rica	C6		4618		
1987	Cuba	C7		11725		
1987	Curacao	C8	9	3992		
1987	Congo	C9		1081		
1987	Djibouti	D1		3000		
1987	Dominican Rep.	D2		0		
1987	Denmark	D3	0			
1987	Ecuador	E1		40689		
1987	Egypt	E2		14180		
1987	El Salvador	E3		5871		
1987	Fiji	F1	17	7940		
1987	France	F2	3089	2554		
1987	FR/NL. W. Indies	F3	0	0		
1987	Guam	G1	10			
1987	Guatamala	G2		5819		
1987	Germany (F. R.)	G3	2706	1940		
1987	Gambia	G4	0	82996		

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YEAR	COUNTRY	REF	OTHER COUNTRY		REPORTED BY	
			IMPORTS	EXPORTS	IMPORTS	EXPORTS
1987	Ghana	G5		12648		
1987	Guinea	G6		7384		
1987	Guyana	G7		0		
1987	Grenada	G8		0		
1987	Greece	G9	45			
1987	Hong Kong	H1	1648540	237153	3552634	846285
1987	Haiti	H2		0		
1987	Honduras	H3		0		
1987	Indonesia	I1	0	222371	50	546763
1987	India	I2	0	168771		
1987	Ivory Coast	I3		0		
1987	Italy	I4	113	0		
1987	Iraq	I5	0			
1987	Iceland	I6		0		
1987	Irish Republic	I7	0			
1987	Japan	J1	158425	845382	0	632189
1987	Jordan	J2	0			
1987	Korea (Rep)	K1	50			
1987	Kenya	K2		28000		
1987	Kiribati	K3		172		
1987	Kuwait	K4	0			
1987	Liberia	L1	0	3256		
1987	Lebanon	L2	0			
1987	Malaya	M1		0		
1987	Mauritania	M10		303		
1987	Malaysia	M2	164604	33930	64660	13060
1987	Mauritius	M3	262	14000		
1987	Maldives	M4	8	20766		
1987	Mexico	M5	0	154767		
1987	Mozambique	M6		0		
1987	Malagasey	M7	0	3581		
1987	Madagascar	M8		0		
1987	Macau	M9	1840	33732		
1987	New Zealand	N1	140	4150		
1987	Nigeria	N2	153	3346		
1987	New Caledonia	N3		1000		
1987	Norway	N4	136	46965		
1987	Netherlands	N5	1219	15323		
1987	Oman	O1	30	31010		
1987	Philippines	P1	0	24102		
1987	Pakistan	P2	0	216371		
1987	Peru	P3		35799		
1987	Panama	P4	0	0		
1987	Papua New Guinea	P5	0	0		
1987	Portugal	P6	0	981		
1987	Paraguay	P7	0			
1987	Quatar	Q1		0		
1987	South Korea	S1	0	61886	1250	60100
1987	Solomon Islands	S10	5	2985		

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YEAR	COUNTRY	REF	OTHER COUNTRY		REPORTED BY	
			IMPORTS	EXPORTS	IMPORTS	EXPORTS
1987	Somalia	S11		13533		
1987	Suriname	S12		3300		
1987	Senegal	S13		32943		
1987	Sudan	S14		575		
1987	Sierra Leone	S15		72		
1987	Sweden	S16	64			
1987	Singapore	S2	645046	822989	1198381	1122279
1987	South Africa	S3	20	158960		
1987	Switzerland	S4	63	0		
1987	Spain	S5	0	182013		
1987	Saudi Arabia	S6	97	0		
1987	Sri Lanka	S7	0	50578	0	52978
1987	Swaziland	S8		0		
1987	Seychelles	S9		23023		
1987	Thailand	T1	97583	42042	104573	42069
1987	Taiwan	T2	16282	65611	20366	150608
1987	Tanzania	T3		0		
1987	Turkey	T4	0	5200		
1987	Trinidad & Tobago	T5	0	14812		
1987	Togo	T6		105		
1987	USA	U1	54990	150008		
1987	Unspecified	U2	10843	130302		
1987	United Arab Em	U3	4903	127666		
1987	United Kingdom	U4	3828	27829		
1987	USSR	U5		0		
1987	Uruguay	U6		67480		
1987	Vietnam	V1	0	17389		
1987	Venezuela	V2		24938		
1987	West. Samoa	W1		3300		
1987	Yemen (Arab Rep)	Y1		30000		
1987	Yemen (Peop Rep)	Y2		37000		
1987	Zaire	Z1	0			
	TOTAL 1987		3466331	4941914	4941914	3466331
1988	Australia	A1	5891	15151		
1988	Argentina	A2		8197		
1988	America Samoa	A3		0		
1988	Aruba	A4		0		
1988	Austria	A5	125			
1988	Brazil	B1	0	251234		
1988	Brunei	B2	23626	1102		
1988	Bangladesh	B3		20719		
1988	Burma	B4	83680	280		
1988	Bahrein	B5	0			
1988	Belgium	B6	35	0		
1988	Benin	B7		0		
1988	Canada	C1	19546	10658		
1988	Cameroon	C10	2	0		

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YEAR	COUNTRY	REF	OTHER COUNTRY		REPORTED BY	
			IMPORTS	EXPORTS	IMPORTS	EXPORTS
1988	China	C2	901533	463371		
1988	Cyprus	C3	5			
1988	Chile	C4		8894		
1988	Colombia	C5		11569		
1988	Costa Rica	C6		4849		
1988	Cuba	C7		1075		
1988	Curacao	C8	0	5603		
1988	Congo	C9		652		
1988	Djibouti	D1		0		
1988	Dominican Rep.	D2		0		
1988	Denmark	D3	3			
1988	Ecuador	E1		32579		
1988	Egypt	E2		5600		
1988	El Salvador	E3		16287		
1988	Fiji	F1	0	13762		
1988	France	F2	3286	2000		
1988	FR/NL. W. Indies	F3	9	1508		
1988	Guam	G1	7066			
1988	Guatemala	G2		8304		
1988	Germany (F. R.)	G3	3265	16231		
1988	Gambia	G4	0	129701		
1988	Ghana	G5		16335		
1988	Guinea	G6		5000		
1988	Guyana	G7		0		
1988	Grenada	G8		3636		
1988	Greece	G9	0			
1988	Hong Kong	H1	1273064	105068	3737923	1207071
1988	Haiti	H2		136		
1988	Honduras	H3		0		
1988	Indonesia	I1	0	298106	3	458442
1988	India	I2	0	309881		
1988	Ivory Coast	I3		12715		
1988	Italy	I4	0	1		
1988	Iraq	I5	0			
1988	Iceland	I6		0		
1988	Irish Republic	I7	0			
1988	Japan	J1	237097	672814	0	527470
1988	Jordan	J2	0			
1988	Korea (Rep)	K1	150			
1988	Kenya	K2		20620		
1988	Kiribati	K3		169		
1988	Kuwait	K4	0			
1988	Liberia	L1	0	1670		
1988	Lebanon	L2	38			
1988	Malaya	M1		0		
1988	Mauritania	M10		500		
1988	Malaysia	M2	109367	707769	73010	8300
1988	Mauritius	M3	148	16500		
1988	Maldives	M4	0	12389		

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nb: n/a = figures not available at Export Market Information Library

YEAR	COUNTRY	REF	OTHER COUNTRY		REPORTED BY	
			IMPORTS	EXPORTS	IMPORTS	EXPORTS
1988	Mexico	M5	0	182719		
1988	Mozambique	M6		11630		
1988	Malagasey	M7	60	6272		
1988	Madagascar	M8		0		
1988	Macau	M9	1272	11620		
1988	New Zealand	N1	62	19978		
1988	Nigeria	N2	116	4448		
1988	New Caledonia	N3		1000		
1988	Norway	N4	82	21674		
1988	Netherlands	N5	1245	4282		
1988	Oman	O1	0	42107		
1988	Philippines	P1	0	20272		
1988	Pakistan	P2	0	236593		
1988	Peru	P3		84511		
1988	Panama	P4	4	8534		
1988	Papua New Guinea	P5	6	0		
1988	Portugal	P6	0	315		
1988	Paraguay	P7	16			
1988	Quatar	Q1		132		
1988	South Korea	S1	18150	92500	6067	51028
1988	Solomon Islands	S10	0	2692		
1988	Somalia	S11		14000		
1988	Suriname	S12		19778		
1988	Senegal	S13		42123		
1988	Sudan	S14		0		
1988	Sierra Leone	S15		180		
1988	Sweden	S16	174			
1988	Singapore	S2	505406	675589	1925016	920358
1988	South Africa	S3	10	119276		
1988	Switzerland	S4	117	0		
1988	Spain	S5	1726	158546		
1988	Saudi Arabia	S6	30	3513		
1988	Sri Lanka	S7	0	56331	0	49159
1988	Swaziland	S8		15		
1988	Seychelles	S9		19629		
1988	Thailand	T1	88014	65408	131462	52890
1988	Taiwan	T2	90107	21287	103498	149857
1988	Tanzania	T3		3170		
1988	Turkey	T4	0	4200		
1988	Trinidad & Tobago	T5	0	4059		
1988	Togo	T6		40		
1988	USA	U1	30847	278220		
1988	Unspecified	U2	2335	124889		
1988	United Arab Em	U3	6679	131178		
1988	United Kingdom	U4	4887	11637		
1988	USSR	U5		2000		
1988	Uruguay	U6		31709		
1988	Vietnam	V1	5279	35591		
1988	Venezuela	V2		42320		

SHARK FIN DATA BOOK SUMMARY...No: S3

BY YEAR

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YEAR	COUNTRY	REF	OTHER COUNTRY		REPORTED BY	
			IMPORTS	EXPORTS	IMPORTS	EXPORTS
1988	West. Samoa	W1		32877		
1988	Yemen (Arab Rep)	Y1		65000		
1988	Yemen (Peop Rep)	Y2		50500		
1988	Zaire	Z1	15			
	TOTAL 1988		3424575	5976979	5976979	3424575
1989	Australia	A1	6796	30182		
1989	Argentina	A2		29525		
1989	America Samoa	A3		0		
1989	Aruba	A4		0		
1989	Austria	A5	51			
1989	Brazil	B1	0	295167		
1989	Brunei	B2	3292	0		
1989	Bangladesh	B3		18320		
1989	Burma	B4	78000	100		
1989	Bahrein	B5	0			
1989	Belgium	B6	26	16		
1989	Benin	B7		0		
1989	Canada	C1	24788	19814		
1989	Cameroon	C10	0	40		
1989	China	C2	1069278	566119		
1989	Cyprus	C3	0			
1989	Chile	C4		1009		
1989	Colombia	C5		19382		
1989	Costa Rica	C6		11589		
1989	Cuba	C7		4186		
1989	Curacao	C8	4	0		
1989	Congo	C9		1177		
1989	Djibouti	D1		1000		
1989	Dominican Rep.	D2		0		
1989	Denmark	D3	0			
1989	Ecuador	E1		26052		
1989	Egypt	E2		7450		
1989	El Salvador	E3		15713		
1989	Fiji	F1	2	24667		
1989	France	F2	1294	5560		
1989	FR/NL. W. Indies	F3	22	0		
1989	Guam	G1	20			
1989	Guatemala	G2		9973		
1989	Germany (F. R.)	G3	2439	25194		
1989	Gambia	G4	0	179778		
1989	Ghana	G5		26806		
1989	Guinea	G6		3447		
1989	Guyana	G7		0		
1989	Grenada	G8		5000		
1989	Greece	G9	0			
1989	Hong Kong	H1	1954292	157479	3553966	1434110
1989	Haiti	H2		200		

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BY YEAR

nb: n/a = figures not available at Export Market Information Library

YEAR	COUNTRY	REF	OTHER COUNTRY		REPORTED BY	
			IMPORTS	EXPORTS	IMPORTS	EXPORTS
1989	Honduras	H3		0		
1989	Indonesia	I1	0	314551	4000	516511
1989	India	I2	0	250980		
1989	Ivory Coast	I3		6358		
1989	Italy	I4	0	0		
1989	Iraq	I5	0			
1989	Iceland	I6		0		
1989	Irish Republic	I7	0			
1989	Japan	J1	415031	580639	0	503042
1989	Jordan	J2	0			
1989	Korea (Rep)	K1	220			
1989	Kenya	K2		36500		
1989	Kiribati	K3		210		
1989	Kuwait	K4	0			
1989	Liberia	L1	0	1977		
1989	Lebanon	L2	0			
1989	Malaya	M1		0		
1989	Mauritania	M10		1000		
1989	Malaysia	M2	81792	1260	91140	11320
1989	Mauritius	M3	96	15300		
1989	Maldives	M4	35	11670		
1989	Mexico	M5	400	188715		
1989	Mozambique	M6		5125		
1989	Malagasey	M7	22	13376		
1989	Madagascar	M8		1000		
1989	Macau	M9	1090	16841		
1989	New Zealand	N1	40	10706		
1989	Nigeria	N2	47	3998		
1989	New Caledonia	N3		0		
1989	Norway	N4	30	8579		
1989	Netherlands	N5	399	1600		
1989	Oman	O1	5000	10616		
1989	Philippines	P1	0	12859		
1989	Pakistan	P2	0	173264		
1989	Peru	P3		102291		
1989	Panama	P4	9	13987		
1989	Papua New Guinea	P5	10	0		
1989	Portugal	P6	0	1045		
1989	Paraguay	P7	0			
1989	Quatar	Q1		0		
1989	South Korea	S1	10287	53599	7934	35932
1989	Solomon Islands	S10	0	2527		
1989	Somalia	S11		10887		
1989	Suriname	S12		1865		
1989	Senegal	S13		23285		
1989	Sudan	S14		330		
1989	Sierra Leone	S15		207		
1989	Sweden	S16	173			
1989	Singapore	S2	545713	585181	1234360	1573549

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nb: n/a = figures not available at Export Market Information Library

YEAR	COUNTRY	REF	OTHER COUNTRY		REPORTED BY	
			IMPORTS	EXPORTS	IMPORTS	EXPORTS
1989	South Africa	S3	0	75927		
1989	Switzerland	S4	162	80		
1989	Spain	S5	99	111420		
1989	Saudi Arabia	S6	30	6125		
1989	Sri Lanka	S7	0	67245	0	53932
1989	Swaziland	S8		80		
1989	Seychelles	S9		26661		
1989	Thailand	T1	100657	43024	83584	35171
1989	Taiwan	T2	91671	19864	125662	287450
1989	Tanzania	T3		465		
1989	Turkey	T4	0	1120		
1989	Trinidad & Tobago	T5	42	737		
1989	Togo	T6		424		
1989	USA	U1	48253	247904		
1989	Unspecified	U2	997	102892		
1989	United Arab Em	U3	4085	201073		
1989	United Kingdom	U4	4323	4044		
1989	USSR	U5		0		
1989	Uruguay	U6		30998		
1989	Vietnam	V1	0	19959		
1989	Venezuela	V2		30831		
1989	West. Samoa	W1		48300		
1989	Yemen (Arab Rep)*	Y1		94200		
1989	Yemen (Peop Rep)	Y2		20000		
1989	Zaire	Z1	0			
	TOTAL 1989		4451017	5100646	5100646	4451017
1990	Australia	A1	6655	40269		
1990	Argentina	A2		45107		
1990	America Samoa	A3		0		
1990	Aruba	A4		0		
1990	Austria	A5	32			
1990	Brazil	B1	0	233803		
1990	Brunei	B2	16400	0		
1990	Bangladesh	B3		19287		
1990	Burma	B4	98000	0		
1990	Bahrein	B5	0			
1990	Belgium	B6	13	460		
1990	Benin	B7		0		
1990	Canada	C1	23849	32122		
1990	Cameroon	C10	0	85		
1990	China	C2	1345258	818053		
1990	Cyprus	C3	0			
1990	Chile	C4		1840		
1990	Colombia	C5		19856		
1990	Costa Rica	C6		10929		
1990	Cuba	C7		6400		
1990	Curacao	C8	10	0		

SHARK FIN DATA BOOK SUMMARY...No: S3

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nb: n/a = figures not available at Export Market Information Library

YEAR	COUNTRY	REF	OTHER COUNTRY		REPORTED BY	
			IMPORTS	EXPORTS	IMPORTS	EXPORTS
1990	Congo	C9		4999		
1990	Djibouti	D1		3000		
1990	Dominican Rep.	D2		0		
1990	Denmark	D3	4			
1990	Ecuador	E1		25037		
1990	Egypt	E2		9535		
1990	El Salvador	E3		11483		
1990	Fiji	F1	0	15683		
1990	France	F2	1450	1290		
1990	FR/NL. W. Indies	F3	15	0		
1990	Guam	G1	40			
1990	Guatemala	G2		11583		
1990	Germany (F. R.)	G3	2600	46823		
1990	Gambia	G4	0	130603		
1990	Ghana	G5		20610		
1990	Guinea	G6		4603		
1990	Guyana	G7		565		
1990	Grenada	G8		7650		
1990	Greece	G9	0			
1990	Hong Kong	H1	1088261	126163	3838028	1609523
1990	Haiti	H2		0		
1990	Honduras	H3		0		
1990	Indonesia	I1	0	162561	682	421556
1990	India	I2	0	173216		
1990	Ivory Coast	I3		2382		
1990	Italy	I4	740	0		
1990	Iraq	I5	0			
1990	Iceland	I6		0		
1990	Irish Republic	I7	24			
1990	Japan	J1	463303	552973	0	451264
1990	Jordan	J2	0			
1990	Korea (Rep)	K1	116			
1990	Kenya	K2		34100		
1990	Kiribati	K3		648		
1990	Kuwait	K4	0			
1990	Liberia	L1	0	2396		
1990	Lebanon	L2	0			
1990	Malaya	M1		200		
1990	Mauritania	M10		0		
1990	Malaysia	M2	155870	13198	n/a	n/a
1990	Mauritius	M3	0	7130		
1990	Maldives	M4	0	5625		
1990	Mexico	M5	23	111306		
1990	Mozambique	M6		2246		
1990	Malagasey	M7	8	8460		
1990	Madagascar	M8		4000		
1990	Macau	M9	0	9250		
1990	New Zealand	N1	861	21025		
1990	Nigeria	N2	0	1947		

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BY YEAR

nb: n/a = figures not available at Export Market Information Library

YEAR	COUNTRY	REF	OTHER COUNTRY		REPORTED BY	
			IMPORTS	EXPORTS	IMPORTS	EXPORTS
1990	New Caledonia	N3		0		
1990	Norway	N4	0	11024		
1990	Netherlands	N5	870	340		
1990	Oman	O1	0	22065		
1990	Philippines	P1	1000	4752		
1990	Pakistan	P2	0	139907		
1990	Peru	P3		71760		
1990	Panama	P4	0	21517		
1990	Papua New Guinea	P5	40	0		
1990	Portugal	P6	0	0		
1990	Paraguay	P7	0			
1990	Quatar	Q1		0		
1990	South Korea	S1	300	64037	11400	75469
1990	Solomon Islands	S10	0	2313		
1990	Somalia	S11		3526		
1990	Suriname	S12		2250		
1990	Senegal	S13		23978		
1990	Sudan	S14		0		
1990	Sierra Leone	S15		210		
1990	Sweden	S16	150			
1990	Singapore	S2	390407	498508	1023884	835399
1990	South Africa	S3	12	133518		
1990	Switzerland	S4	129	0		
1990	Spain	S5	60	157817		
1990	Saudi Arabia	S6	32	5200		
1990	Sri Lanka	S7	0	55959	n/a	n/a
1990	Swaziland	S8		0		
1990	Seychelles	S9		30835		
1990	Thailand	T1	67509	44836	66927	24946
1990	Taiwan	T2	41488	43357	70135	366277
1990	Tanzania	T3		1510		
1990	Turkey	T4	0	3000		
1990	Trinidad & Tobago	T5	18	6119		
1990	Togo	T6		4204		
1990	USA	U1	76091	332015		
1990	Unspecified	U2	-1198	85423		
1990	United Arab Em	U3	135	208775		
1990	United Kingdom	U4	3859	80		
1990	USSR	U5		0		
1990	Uruguay	U6		56100		
1990	Vietnam	V1	0	31659		
1990	Venezuela	V2		24800		
1990	West. Samoa	W1		43161		
1990	Yemen (Arab Rep)*	Y1		116000		
1990	Yemen (Peop Rep)	Y2		0		
1990	Zaire	Z1	0			
	TOTAL 1990		3784434	5011056	5011056	3784434
	GRAND TOTAL		19058416	30998905	30998905	19058416

APPENDIX II

Summary of Shark Data Book by Country

NOTES:

1. All figures refer to quantities of shark fins in KG.
2. 'Reported by': are the total quantities of shark fins reported under the commodity codes given in Table 3.01, by each of the 9 countries examined.
3. 'Other country': denotes quantities traded by other nations with the 9 countries examined, and represents the origin of their cumulative imports and exports.
3. The statistics did not always differentiate the Arab Republic of Yemen from the People's Republic of Yemen, and therefore the split between these two countries may be unreliable.
4. Any quantities for which the origin was not given in sufficient detail e.g. 'Africa' or 'Oceania' were entered as 'unspecified'.

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BY COUNTRY

YEAR	COUNTRY	REF	OTHER COUNTRY		REPORTED BY	
			IMPORTS	EXPORTS	IMPORTS	EXPORTS
1984	Australia	A1	2802	3403		
1985	Australia	A1	2016	3350		
1986	Australia	A1	5995	5251		
1987	Australia	A1	3468	15057		
1988	Australia	A1	5891	15151		
1989	Australia	A1	6796	30182		
1990	Australia	A1	6655	40269		
1984	Argentina	A2		0		
1985	Argentina	A2		0		
1986	Argentina	A2		12792		
1987	Argentina	A2		11153		
1988	Argentina	A2		8197		
1989	Argentina	A2		29525		
1990	Argentina	A2		45107		
1984	America Samoa	A3		0		
1985	America Samoa	A3		0		
1986	America Samoa	A3		0		
1987	America Samoa	A3		4000		
1988	America Samoa	A3		0		
1989	America Samoa	A3		0		
1990	America Samoa	A3		0		
1984	Aruba	A4		0		
1985	Aruba	A4		0		
1986	Aruba	A4		6149		
1987	Aruba	A4		2417		
1988	Aruba	A4		0		
1989	Aruba	A4		0		
1990	Aruba	A4		0		
1984	Austria	A5	0			
1985	Austria	A5	0			
1986	Austria	A5	33			
1987	Austria	A5	72			
1988	Austria	A5	125			
1989	Austria	A5	51			
1990	Austria	A5	32			
1984	Brazil	B1	0	141797		
1985	Brazil	B1	0	139547		
1986	Brazil	B1	32	182616		
1987	Brazil	B1	0	164877		
1988	Brazil	B1	0	251234		
1989	Brazil	B1	0	295167		
1990	Brazil	B1	0	233803		
1984	Brunei	B2	1625	0		
1985	Brunei	B2	804	0		
1986	Brunei	B2	8454	660		
1987	Brunei	B2	3078	0		
1988	Brunei	B2	23626	1102		
1989	Brunei	B2	3292	0		
1990	Brunei	B2	16400	0		

SHARK FIN DATA BOOK SUMMARY...No: S3
BY COUNTRY

YEAR	COUNTRY	REF	OTHER COUNTRY		REPORTED BY	
			IMPORTS	EXPORTS	IMPORTS	EXPORTS
1984	Bangladesh	B3		13209		
1985	Bangladesh	B3		5953		
1986	Bangladesh	B3		73252		
1987	Bangladesh	B3		39744		
1988	Bangladesh	B3		20719		
1989	Bangladesh	B3		18320		
1990	Bangladesh	B3		19287		
1984	Burma	B4	0	100		
1985	Burma	B4	0	150		
1986	Burma	B4	12000	0		
1987	Burma	B4	48960	300		
1988	Burma	B4	83680	280		
1989	Burma	B4	78000	100		
1990	Burma	B4	98000	0		
1984	Bahrein	B5	0			
1985	Bahrein	B5	36			
1986	Bahrein	B5	0			
1987	Bahrein	B5	0			
1988	Bahrein	B5	0			
1989	Bahrein	B5	0			
1990	Bahrein	B5	0			
1984	Belgium	B6	185	0		
1985	Belgium	B6	58	0		
1986	Belgium	B6	57	0		
1987	Belgium	B6	41	0		
1988	Belgium	B6	35	0		
1989	Belgium	B6	26	16		
1990	Belgium	B6	13	460		
1984	Benin	B7		0		
1985	Benin	B7		200		
1986	Benin	B7		0		
1987	Benin	B7		0		
1988	Benin	B7		0		
1989	Benin	B7		0		
1990	Benin	B7		0		
1984	Canada	C1	7053	11524		
1985	Canada	C1	10507	22046		
1986	Canada	C1	19610	9590		
1987	Canada	C1	20222	9643		
1988	Canada	C1	19546	10658		
1989	Canada	C1	24788	19814		
1990	Canada	C1	23849	32122		
1984	Cameroon	C10	0	0		
1985	Cameroon	C10	0	0		
1986	Cameroon	C10	7	0		
1987	Cameroon	C10	0	0		
1988	Cameroon	C10	2	0		
1989	Cameroon	C10	0	40		
1990	Cameroon	C10	0	85		

SHARK FIN DATA BOOK SUMMARY...No: S3
BY COUNTRY

YEAR	COUNTRY	REF	OTHER COUNTRY		REPORTED BY	
			IMPORTS	EXPORTS	IMPORTS	EXPORTS
1984	China	C2	84600	31731		
1985	China	C2	133028	35114		
1986	China	C2	333991	91494		
1987	China	C2	575340	236395		
1988	China	C2	901533	463371		
1989	China	C2	1069278	566119		
1990	China	C2	1345258	818053		
1984	Cyprus	C3	19	75		
1985	Cyprus	C3	0			
1986	Cyprus	C3	0			
1987	Cyprus	C3	30			
1988	Cyprus	C3	5			
1989	Cyprus	C3	0			
1990	Cyprus	C3	0			
1984	Chile	C4		184		
1985	Chile	C4		1710		
1986	Chile	C4		2279		
1987	Chile	C4		3121		
1988	Chile	C4		8894		
1989	Chile	C4		1009		
1990	Chile	C4		1840		
1984	Colombia	C5		0		
1985	Colombia	C5		1406		
1986	Colombia	C5		7259		
1987	Colombia	C5		7000		
1988	Colombia	C5		11569		
1989	Colombia	C5		19382		
1990	Colombia	C5		19856		
1984	Costa Rica	C6		3933		
1985	Costa Rica	C6		0		
1986	Costa Rica	C6		4800		
1987	Costa Rica	C6		4618		
1988	Costa Rica	C6		4849		
1989	Costa Rica	C6		11589		
1990	Costa Rica	C6		10929		
1984	Cuba	C7		6455		
1985	Cuba	C7		11732		
1986	Cuba	C7		12833		
1987	Cuba	C7		11725		
1988	Cuba	C7		1075		
1989	Cuba	C7		4186		
1990	Cuba	C7		6400		
1984	Curacao	C8	70	3771		
1985	Curacao	C8	35	0		
1986	Curacao	C8	11	0		
1987	Curacao	C8	9	3992		
1988	Curacao	C8	0	5603		
1989	Curacao	C8	4	0		
1990	Curacao	C8	10	0		

SHARK FIN DATA BOOK SUMMARY...No: S3
BY COUNTRY

YEAR	COUNTRY	REF	OTHER COUNTRY		REPORTED BY	
			IMPORTS	EXPORTS	IMPORTS	EXPORTS
1984	Congo	C9		0		
1985	Congo	C9		0		
1986	Congo	C9		0		
1987	Congo	C9		1081		
1988	Congo	C9		652		
1989	Congo	C9		1177		
1990	Congo	C9		4999		
1984	Djibouti	D1		0		
1985	Djibouti	D1		0		
1986	Djibouti	D1		0		
1987	Djibouti	D1		3000		
1988	Djibouti	D1		0		
1989	Djibouti	D1		1000		
1990	Djibouti	D1		3000		
1984	Dominican Rep.	D2		0		
1985	Dominican Rep.	D2		4654		
1986	Dominican Rep.	D2		2800		
1987	Dominican Rep.	D2		0		
1988	Dominican Rep.	D2		0		
1989	Dominican Rep.	D2		0		
1990	Dominican Rep.	D2		0		
1984	Denmark	D3	0			
1985	Denmark	D3	0			
1986	Denmark	D3	18			
1987	Denmark	D3	0			
1988	Denmark	D3	3			
1989	Denmark	D3	0			
1990	Denmark	D3	4			
1984	Ecuador	E1		68805		
1985	Ecuador	E1		46227		
1986	Ecuador	E1		47789		
1987	Ecuador	E1		40689		
1988	Ecuador	E1		32579		
1989	Ecuador	E1		26052		
1990	Ecuador	E1		25037		
1984	Egypt	E2		2640		
1985	Egypt	E2		2500		
1986	Egypt	E2		7850		
1987	Egypt	E2		14180		
1988	Egypt	E2		5600		
1989	Egypt	E2		7450		
1990	Egypt	E2		9535		
1984	El Salvador	E3		5535		
1985	El Salvador	E3		4900		
1986	El Salvador	E3		7652		
1987	El Salvador	E3		5871		
1988	El Salvador	E3		16287		
1989	El Salvador	E3		15713		
1990	El Salvador	E3		11483		

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YEAR	COUNTRY	REF	OTHER COUNTRY		REPORTED BY	
			IMPORTS	EXPORTS	IMPORTS	EXPORTS
1984	Fiji	F1	18	8461		
1985	Fiji	F1	25	8860		
1986	Fiji	F1	69	14900		
1987	Fiji	F1	17	7940		
1988	Fiji	F1	0	13762		
1989	Fiji	F1	2	24667		
1990	Fiji	F1	0	15683		
1984	France	F2	174	587		
1985	France	F2	269	2000		
1986	France	F2	3610	790		
1987	France	F2	3089	2554		
1988	France	F2	3286	2000		
1989	France	F2	1294	5560		
1990	France	F2	1450	1290		
1984	FR/NL. W. Indies	F3	3	0		
1985	FR/NL. W. Indies	F3	0	777		
1986	FR/NL. W. Indies	F3	10	4495		
1987	FR/NL. W. Indies	F3	0	0		
1988	FR/NL. W. Indies	F3	9	1508		
1989	FR/NL. W. Indies	F3	22	0		
1990	FR/NL. W. Indies	F3	15	0		
1984	Guam	G1	0			
1985	Guam	G1	0			
1986	Guam	G1	48			
1987	Guam	G1	10			
1988	Guam	G1	7066			
1989	Guam	G1	20			
1990	Guam	G1	40			
1984	Guatamala	G2		0		
1985	Guatamala	G2		305		
1986	Guatamala	G2		506		
1987	Guatamala	G2		5819		
1988	Guatamala	G2		8304		
1989	Guatamala	G2		9973		
1990	Guatamala	G2		11583		
1984	Germany (F. R.)	G3	1385	7400		
1985	Germany (F. R.)	G3	2408	8593		
1986	Germany (F. R.)	G3	2410	10644		
1987	Germany (F. R.)	G3	2706	1940		
1988	Germany (F. R.)	G3	3265	16231		
1989	Germany (F. R.)	G3	2439	25194		
1990	Germany (F. R.)	G3	2600	46823		
1984	Gambia	G4	0	61940		
1985	Gambia	G4	4800	51261		
1986	Gambia	G4	0	63365		
1987	Gambia	G4	0	82996		
1988	Gambia	G4	0	129701		
1989	Gambia	G4	0	179778		
1990	Gambia	G4	0	130603		

**SHARK FIN DATA BOOK SUMMARY...No: S3
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YEAR	COUNTRY	REF	OTHER COUNTRY		REPORTED BY	
			IMPORTS	EXPORTS	IMPORTS	EXPORTS
1984	Ghana	G5		5163		
1985	Ghana	G5		2661		
1986	Ghana	G5		6618		
1987	Ghana	G5		12648		
1988	Ghana	G5		16335		
1989	Ghana	G5		26806		
1990	Ghana	G5		20610		
1984	Guinea	G6		0		
1985	Guinea	G6		0		
1986	Guinea	G6		1359		
1987	Guinea	G6		7384		
1988	Guinea	G6		5000		
1989	Guinea	G6		3447		
1990	Guinea	G6		4603		
1984	Guyana	G7		463		
1985	Guyana	G7		410		
1986	Guyana	G7		0		
1987	Guyana	G7		0		
1988	Guyana	G7		0		
1989	Guyana	G7		0		
1990	Guyana	G7		565		
1984	Grenada	G8		0		
1985	Grenada	G8		0		
1986	Grenada	G8		0		
1987	Grenada	G8		0		
1988	Grenada	G8		3636		
1989	Grenada	G8		5000		
1990	Grenada	G8		7650		
1984	Greece	G9	0			
1985	Greece	G9	0			
1986	Greece	G9	0			
1987	Greece	G9	45			
1988	Greece	G9	0			
1989	Greece	G9	0			
1990	Greece	G9	0			
1984	Hong Kong	H1	4602	19090	2778978	398236
1985	Hong Kong	H1	75698	10556	2648187	427274
1986	Hong Kong	H1	1371550	56711	2879084	596658
1987	Hong Kong	H1	1648540	237153	3552634	846285
1988	Hong Kong	H1	1273064	105068	3737923	1207071
1989	Hong Kong	H1	1954292	157479	3553966	1434110
1990	Hong Kong	H1	1088261	126163	3838028	1609523
1984	Haiti	H2		340		
1985	Haiti	H2		0		
1986	Haiti	H2		0		
1987	Haiti	H2		0		
1988	Haiti	H2		136		
1989	Haiti	H2		200		
1990	Haiti	H2		0		

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YEAR	COUNTRY	REF	OTHER COUNTRY		REPORTED BY	
			IMPORTS	EXPORTS	IMPORTS	EXPORTS
1984	Honduras	H3		1425		
1985	Honduras	H3		0		
1986	Honduras	H3		0		
1987	Honduras	H3		0		
1988	Honduras	H3		0		
1989	Honduras	H3		0		
1990	Honduras	H3		0		
1984	Indonesia	I1	0	245695	n/a	n/a
1985	Indonesia	I1	0	175904	0	326918
1986	Indonesia	I1	0	125547	0	429248
1987	Indonesia	I1	0	222371	50	546763
1988	Indonesia	I1	0	298106	3	458442
1989	Indonesia	I1	0	314551	4000	516511
1990	Indonesia	I1	0	162561	682	421556
1984	India	I2	0	55118		
1985	India	I2	0	29784		
1986	India	I2	0	190823		
1987	India	I2	0	168771		
1988	India	I2	0	309881		
1989	India	I2	0	250980		
1990	India	I2	0	173216		
1984	Ivory Coast	I3		0		
1985	Ivory Coast	I3		9976		
1986	Ivory Coast	I3		2429		
1987	Ivory Coast	I3		0		
1988	Ivory Coast	I3		12715		
1989	Ivory Coast	I3		6358		
1990	Ivory Coast	I3		2382		
1984	Italy	I4	0	0		
1985	Italy	I4	0	0		
1986	Italy	I4	0	0		
1987	Italy	I4	113	0		
1988	Italy	I4	0	1		
1989	Italy	I4	0	0		
1990	Italy	I4	740	0		
1984	Iraq	I5	0			
1985	Iraq	I5	37			
1986	Iraq	I5	35			
1987	Iraq	I5	0			
1988	Iraq	I5	0			
1989	Iraq	I5	0			
1990	Iraq	I5	0			
1984	Iceland	I6		0		
1985	Iceland	I6		491		
1986	Iceland	I6		133		
1987	Iceland	I6		0		
1988	Iceland	I6		0		
1989	Iceland	I6		0		
1990	Iceland	I6		0		

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YEAR	COUNTRY	REF	OTHER COUNTRY		REPORTED BY	
			IMPORTS	EXPORTS	IMPORTS	EXPORTS
1984	Irish Republic	I7	0			
1985	Irish Republic	I7	0			
1986	Irish Republic	I7	0			
1987	Irish Republic	I7	0			
1988	Irish Republic	I7	0			
1989	Irish Republic	I7	0			
1990	Irish Republic	I7	24			
1984	Japan	J1	12545	1038456	n/a	n/a
1985	Japan	J1	14477	895415	n/a	n/a
1986	Japan	J1	47132	886984	0	710667
1987	Japan	J1	158425	845382	0	632189
1988	Japan	J1	237097	672814	0	527470
1989	Japan	J1	415031	580639	0	503042
1990	Japan	J1	463303	552973	0	451264
1984	Jordan	J2	275			
1985	Jordan	J2	0			
1986	Jordan	J2	0			
1987	Jordan	J2	0			
1988	Jordan	J2	0			
1989	Jordan	J2	0			
1990	Jordan	J2	0			
1984	Korea: North	K1	128			
1985	Korea (Rep)	K1	50			
1986	Korea (Rep)	K1	30			
1987	Korea (Rep)	K1	50			
1988	Korea (Rep)	K1	150			
1989	Korea (Rep)	K1	220			
1990	Korea (Rep)	K1	116			
1984	Kenya	K2		1371		
1985	Kenya	K2		0		
1986	Kenya	K2		19731		
1987	Kenya	K2		28000		
1988	Kenya	K2		20620		
1989	Kenya	K2		36500		
1990	Kenya	K2		34100		
1984	Kiribati	K3		0		
1985	Kiribati	K3		0		
1986	Kiribati	K3		0		
1987	Kiribati	K3		172		
1988	Kiribati	K3		169		
1989	Kiribati	K3		210		
1990	Kiribati	K3		648		
1984	Kuwait	K4	0			
1985	Kuwait	K4	0			
1986	Kuwait	K4	52			
1987	Kuwait	K4	0			
1988	Kuwait	K4	0			
1989	Kuwait	K4	0			
1990	Kuwait	K4	0			

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YEAR	COUNTRY	REF	OTHER COUNTRY		REPORTED BY	
			IMPORTS	EXPORTS	IMPORTS	EXPORTS
1984	Liberia	L1	0	249		
1985	Liberia	L1	40	664		
1986	Liberia	L1	0	5339		
1987	Liberia	L1	0	3256		
1988	Liberia	L1	0	1670		
1989	Liberia	L1	0	1977		
1990	Liberia	L1	0	2396		
1984	Lebanon	L2	0			
1985	Lebanon	L2	0			
1986	Lebanon	L2	0			
1987	Lebanon	L2	0			
1988	Lebanon	L2	38			
1989	Lebanon	L2	0			
1990	Lebanon	L2	0			
1984	Malaya	M1		0		
1985	Malaya	M1		0		
1986	Malaya	M1		0		
1987	Malaya	M1		0		
1988	Malaya	M1		0		
1989	Malaya	M1		0		
1990	Malaya	M1		200		
1984	Mauritania	M10		0		
1985	Mauritania	M10		0		
1986	Mauritania	M10		0		
1987	Mauritania	M10		303		
1988	Mauritania	M10		500		
1989	Mauritania	M10		1000		
1990	Mauritania	M10		0		
1984	Malaysia	M2	10601	230	274810	2130
1985	Malaysia	M2	32614	0	162090	2090
1986	Malaysia	M2	122756	390	73460	280
1987	Malaysia	M2	164604	33930	64660	13060
1988	Malaysia	M2	109367	707769	73010	8300
1989	Malaysia	M2	81792	1260	91140	11320
1990	Malaysia	M2	155870	13198	n/a	n/a
1984	Mauritius	M3	118	8900		
1985	Mauritius	M3	109	3300		
1986	Mauritius	M3	190	14150		
1987	Mauritius	M3	262	14000		
1988	Mauritius	M3	148	16500		
1989	Mauritius	M3	96	15300		
1990	Mauritius	M3	0	7130		
1984	Maldives	M4	0	0		
1985	Maldives	M4	0	0		
1986	Maldives	M4	5	19575		
1987	Maldives	M4	8	20766		
1988	Maldives	M4	0	12389		
1989	Maldives	M4	35	11670		
1990	Maldives	M4	0	5625		

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YEAR	COUNTRY	REF	OTHER COUNTRY		REPORTED BY	
			IMPORTS	EXPORTS	IMPORTS	EXPORTS
1984	Mexico	M5	297	115929		
1985	Mexico	M5	99	106994		
1986	Mexico	M5	198	129815		
1987	Mexico	M5	0	154767		
1988	Mexico	M5	0	182719		
1989	Mexico	M5	400	188715		
1990	Mexico	M5	23	111306		
1984	Mozambique	M6		0		
1985	Mozambique	M6		172		
1986	Mozambique	M6		1063		
1987	Mozambique	M6		0		
1988	Mozambique	M6		11630		
1989	Mozambique	M6		5125		
1990	Mozambique	M6		2246		
1984	Malagasey	M7	0	6563		
1985	Malagasey	M7	21	1723		
1986	Malagasey	M7	15	900		
1987	Malagasey	M7	0	3581		
1988	Malagasey	M7	60	6272		
1989	Malagasey	M7	22	13376		
1990	Malagasey	M7	8	8460		
1984	Madagascar	M8		0		
1985	Madagascar	M8		0		
1986	Madagascar	M8		0		
1987	Madagascar	M8		0		
1988	Madagascar	M8		0		
1989	Madagascar	M8		1000		
1990	Madagascar	M8		4000		
1984	Macau	M9	33	24671		
1985	Macau	M9	300	45348		
1986	Macau	M9	258	33801		
1987	Macau	M9	1840	33732		
1988	Macau	M9	1272	11620		
1989	Macau	M9	1090	16841		
1990	Macau	M9	0	9250		
1984	New Zealand	N1	151	0		
1985	New Zealand	N1	144	10		
1986	New Zealand	N1	95	6327		
1987	New Zealand	N1	140	4150		
1988	New Zealand	N1	62	19978		
1989	New Zealand	N1	40	10706		
1990	New Zealand	N1	861	21025		
1984	Nigeria	N2	0	607		
1985	Nigeria	N2	36	1606		
1986	Nigeria	N2	129	2315		
1987	Nigeria	N2	153	3346		
1988	Nigeria	N2	116	4448		
1989	Nigeria	N2	47	3998		
1990	Nigeria	N2	0	1947		

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YEAR	COUNTRY	REF	OTHER COUNTRY		REPORTED BY	
			IMPORTS	EXPORTS	IMPORTS	EXPORTS
1984	New Caledonia	N3		0		
1985	New Caledonia	N3		0		
1986	New Caledonia	N3		2000		
1987	New Caledonia	N3		1000		
1988	New Caledonia	N3		1000		
1989	New Caledonia	N3		0		
1990	New Caledonia	N3		0		
1984	Norway	N4	24	17360		
1985	Norway	N4	50	10720		
1986	Norway	N4	240	11642		
1987	Norway	N4	136	46965		
1988	Norway	N4	82	21674		
1989	Norway	N4	30	8579		
1990	Norway	N4	0	11024		
1984	Netherlands	N5	469	0		
1985	Netherlands	N5	317	0		
1986	Netherlands	N5	474	3172		
1987	Netherlands	N5	1219	15323		
1988	Netherlands	N5	1245	4282		
1989	Netherlands	N5	399	1600		
1990	Netherlands	N5	870	340		
1984	Oman	O1	10	956		
1985	Oman	O1	40	644		
1986	Oman	O1	8	0		
1987	Oman	O1	30	31010		
1988	Oman	O1	0	42107		
1989	Oman	O1	5000	10616		
1990	Oman	O1	0	22065		
1984	Philippines	P1	0	6038		
1985	Philippines	P1	0	5269		
1986	Philippines	P1	75	13837		
1987	Philippines	P1	0	24102		
1988	Philippines	P1	0	20272		
1989	Philippines	P1	0	12859		
1990	Philippines	P1	1000	4752		
1984	Pakistan	P2	0	33036		
1985	Pakistan	P2	0	26054		
1986	Pakistan	P2	100	150308		
1987	Pakistan	P2	0	216371		
1988	Pakistan	P2	0	236593		
1989	Pakistan	P2	0	173264		
1990	Pakistan	P2	0	139907		
1984	Peru	P3		29410		
1985	Peru	P3		10009		
1986	Peru	P3		16517		
1987	Peru	P3		35799		
1988	Peru	P3		84511		
1989	Peru	P3		102291		
1990	Peru	P3		71760		

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YEAR	COUNTRY	REF	OTHER COUNTRY		REPORTED BY	
			IMPORTS	EXPORTS	IMPORTS	EXPORTS
1984	Panama	P4	114	12461		
1985	Panama	P4	0	1130		
1986	Panama	P4	34	0		
1987	Panama	P4	0	0		
1988	Panama	P4	4	8534		
1989	Panama	P4	9	13987		
1990	Panama	P4	0	21517		
1984	Papua New Guinea	P5	30	0		
1985	Papua New Guinea	P5	9	0		
1986	Papua New Guinea	P5	0	40		
1987	Papua New Guinea	P5	0	0		
1988	Papua New Guinea	P5	6	0		
1989	Papua New Guinea	P5	10	0		
1990	Papua New Guinea	P5	40	0		
1984	Portugal	P6	0	413		
1985	Portugal	P6	0	0		
1986	Portugal	P6	10	0		
1987	Portugal	P6	0	981		
1988	Portugal	P6	0	315		
1989	Portugal	P6	0	1045		
1990	Portugal	P6	0	0		
1984	Paraguay	P7	0			
1985	Paraguay	P7	0			
1986	Paraguay	P7	0			
1987	Paraguay	P7	0			
1988	Paraguay	P7	16			
1989	Paraguay	P7	0			
1990	Paraguay	P7	0			
1984	Quatar	Q1		0		
1985	Quatar	Q1		0		
1986	Quatar	Q1		0		
1987	Quatar	Q1		0		
1988	Quatar	Q1		132		
1989	Quatar	Q1		0		
1990	Quatar	Q1		0		
1984	South Korea	S1	150	5366	n/a	n/a
1985	South Korea	S1	304	2589	90	39998
1986	South Korea	S1	823	53185	0	79236
1987	South Korea	S1	0	61886	1250	60100
1988	South Korea	S1	18150	92500	6067	51028
1989	South Korea	S1	10287	53599	7934	35932
1990	South Korea	S1	300	64037	11400	75469
1984	Solomon Islands	S10	10	15264		
1985	Solomon Islands	S10	0	9323		
1986	Solomon Islands	S10	0	6906		
1987	Solomon Islands	S10	5	2985		
1988	Solomon Islands	S10	0	2692		
1989	Solomon Islands	S10	0	2527		
1990	Solomon Islands	S10	0	2313		

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YEAR	COUNTRY	REF	OTHER COUNTRY		REPORTED BY	
			IMPORTS	EXPORTS	IMPORTS	EXPORTS
1984	Somalia	S11		6851		
1985	Somalia	S11		11110		
1986	Somalia	S11		8850		
1987	Somalia	S11		13533		
1988	Somalia	S11		14000		
1989	Somalia	S11		10887		
1990	Somalia	S11		3526		
1984	Suriname	S12		5420		
1985	Suriname	S12		10067		
1986	Suriname	S12		20990		
1987	Suriname	S12		3300		
1988	Suriname	S12		19778		
1989	Suriname	S12		1865		
1990	Suriname	S12		2250		
1984	Senegal	S13		39829		
1985	Senegal	S13		43340		
1986	Senegal	S13		22074		
1987	Senegal	S13		32943		
1988	Senegal	S13		42123		
1989	Senegal	S13		23285		
1990	Senegal	S13		23978		
1984	Sudan	S14		900		
1985	Sudan	S14		0		
1986	Sudan	S14		0		
1987	Sudan	S14		575		
1988	Sudan	S14		0		
1989	Sudan	S14		330		
1990	Sudan	S14		0		
1984	Sierra Leone	S15		0		
1985	Sierra Leone	S15		0		
1986	Sierra Leone	S15		0		
1987	Sierra Leone	S15		72		
1988	Sierra Leone	S15		180		
1989	Sierra Leone	S15		207		
1990	Sierra Leone	S15		210		
1984	Sweden	S16	86			
1985	Sweden	S16	152			
1986	Sweden	S16	192			
1987	Sweden	S16	64			
1988	Sweden	S16	174			
1989	Sweden	S16	173			
1990	Sweden	S16	150			
1984	Singapore	S2	194148	317760	n/a	n/a
1985	Singapore	S2	449843	399420	n/a	n/a
1986	Singapore	S2	487968	582440	869118	750459
1987	Singapore	S2	645046	822989	1198381	1122279
1988	Singapore	S2	505406	675589	1925016	920358
1989	Singapore	S2	545713	585181	1234360	1573549
1990	Singapore	S2	390407	498508	1023884	835399

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YEAR	COUNTRY	REF	OTHER COUNTRY		REPORTED BY	
			IMPORTS	EXPORTS	IMPORTS	EXPORTS
1984	South Africa	S3	45	151823		
1985	South Africa	S3	10	139456		
1986	South Africa	S3	0	123045		
1987	South Africa	S3	20	158960		
1988	South Africa	S3	10	119276		
1989	South Africa	S3	0	75927		
1990	South Africa	S3	12	133518		
1984	Switzerland	S4	24	0		
1985	Switzerland	S4	108	0		
1986	Switzerland	S4	75	0		
1987	Switzerland	S4	63	0		
1988	Switzerland	S4	117	0		
1989	Switzerland	S4	162	80		
1990	Switzerland	S4	129	0		
1984	Spain	S5	100	172256		
1985	Spain	S5	20	189699		
1986	Spain	S5	0	203558		
1987	Spain	S5	0	182013		
1988	Spain	S5	1726	158546		
1989	Spain	S5	99	111420		
1990	Spain	S5	60	157817		
1984	Saudi Arabia	S6	54	0		
1985	Saudi Arabia	S6	20	0		
1986	Saudi Arabia	S6	58	0		
1987	Saudi Arabia	S6	97	0		
1988	Saudi Arabia	S6	30	3513		
1989	Saudi Arabia	S6	30	6125		
1990	Saudi Arabia	S6	32	5200		
1984	Sri Lanka	S7	16	1250	n/a	n/a
1985	Sri Lanka	S7	0	671	0	26353
1986	Sri Lanka	S7	0	42830	0	35512
1987	Sri Lanka	S7	0	50578	0	52978
1988	Sri Lanka	S7	0	56331	0	49159
1989	Sri Lanka	S7	0	67245	0	53932
1990	Sri Lanka	S7	0	55959	n/a	n/a
1984	Swaziland	S8		0		
1985	Swaziland	S8		0		
1986	Swaziland	S8		0		
1987	Swaziland	S8		0		
1988	Swaziland	S8		15		
1989	Swaziland	S8		80		
1990	Swaziland	S8		0		
1984	Seychelles	S9		642		
1985	Seychelles	S9		1870		
1986	Seychelles	S9		7850		
1987	Seychelles	S9		23023		
1988	Seychelles	S9		19629		
1989	Seychelles	S9		26661		
1990	Seychelles	S9		30835		

SHARK FIN DATA BOOK SUMMARY...No: S3
BY COUNTRY

YEAR	COUNTRY	REF	OTHER COUNTRY		REPORTED BY	
			IMPORTS	EXPORTS	IMPORTS	EXPORTS
1984	Thailand	T1	68601	6420	84752	20683
1985	Thailand	T1	90380	17008	96766	22382
1986	Thailand	T1	104180	48872	94978	37024
1987	Thailand	T1	97583	42042	104573	42069
1988	Thailand	T1	88014	65408	131462	52890
1989	Thailand	T1	100657	43024	83584	35171
1990	Thailand	T1	67509	44836	66927	24946
1984	Taiwan	T2	252	12367	2100	16867
1985	Taiwan	T2	700	16342	1097	676
1986	Taiwan	T2	94439	32997	2800	9368
1987	Taiwan	T2	16282	65611	20366	150608
1988	Taiwan	T2	90107	21287	103498	149857
1989	Taiwan	T2	91671	19864	125662	287450
1990	Taiwan	T2	41488	43357	70135	366277
1984	Tanzania	T3		4311		
1985	Tanzania	T3		714		
1986	Tanzania	T3		200		
1987	Tanzania	T3		0		
1988	Tanzania	T3		3170		
1989	Tanzania	T3		465		
1990	Tanzania	T3		1510		
1984	Turkey	T4	0	0		
1985	Turkey	T4	0	0		
1986	Turkey	T4	12	3000		
1987	Turkey	T4	0	5200		
1988	Turkey	T4	0	4200		
1989	Turkey	T4	0	1120		
1990	Turkey	T4	0	3000		
1984	Trinidad & Tobago	T5	170	8783		
1985	Trinidad & Tobago	T5	457	5039		
1986	Trinidad & Tobago	T5	232	15406		
1987	Trinidad & Tobago	T5	0	14812		
1988	Trinidad & Tobago	T5	0	4059		
1989	Trinidad & Tobago	T5	42	737		
1990	Trinidad & Tobago	T5	18	6119		
1984	Togo	T6		0		
1985	Togo	T6		8092		
1986	Togo	T6		3409		
1987	Togo	T6		105		
1988	Togo	T6		40		
1989	Togo	T6		424		
1990	Togo	T6		4204		
1984	USA	U1	41319	71009		
1985	USA	U1	21768	74559		
1986	USA	U1	22188	53783		
1987	USA	U1	54990	150008		
1988	USA	U1	30847	278220		
1989	USA	U1	48253	247904		
1990	USA	U1	76091	332015		

SHARK FIN DATA BOOK SUMMARY...No: S3
BY COUNTRY

YEAR	COUNTRY	REF	OTHER COUNTRY		REPORTED BY	
			IMPORTS	EXPORTS	IMPORTS	EXPORTS
1984	Unspecified	U2	47	96956		
1985	Unspecified	U2	165	95272		
1986	Unspecified	U2	4940	109789		
1987	Unspecified	U2	10843	130302		
1988	Unspecified	U2	2335	124889		
1989	Unspecified	U2	997	102892		
1990	Unspecified	U2	-1198	85423		
1984	United Arab Em	U3	101	43249		
1985	United Arab Em	U3	65	28037		
1986	United Arab Em	U3	50	75493		
1987	United Arab Em	U3	4903	127666		
1988	United Arab Em	U3	6679	131178		
1989	United Arab Em	U3	4085	201073		
1990	United Arab Em	U3	135	208775		
1984	United Kingdom	U4	5432	877		
1985	United Kingdom	U4	3642	750		
1986	United Kingdom	U4	3554	6582		
1987	United Kingdom	U4	3828	27829		
1988	United Kingdom	U4	4887	11637		
1989	United Kingdom	U4	4323	4044		
1990	United Kingdom	U4	3859	80		
1984	USSR	U5		0		
1985	USSR	U5		0		
1986	USSR	U5		0		
1987	USSR	U5		0		
1988	USSR	U5		2000		
1989	USSR	U5		0		
1990	USSR	U5		0		
1984	Uruguay	U6		67230		
1985	Uruguay	U6		83169		
1986	Uruguay	U6		83202		
1987	Uruguay	U6		67480		
1988	Uruguay	U6		31709		
1989	Uruguay	U6		30998		
1990	Uruguay	U6		56100		
1984	Vietnam	V1	0	81596		
1985	Vietnam	V1	0	54353		
1986	Vietnam	V1	0	32205		
1987	Vietnam	V1	0	17389		
1988	Vietnam	V1	5279	35591		
1989	Vietnam	V1	0	19959		
1990	Vietnam	V1	0	31659		
1984	Venezuela	V2		32697		
1985	Venezuela	V2		27225		
1986	Venezuela	V2		25482		
1987	Venezuela	V2		24938		
1988	Venezuela	V2		42320		
1989	Venezuela	V2		30831		
1990	Venezuela	V2		24800		

SHARK FIN DATA BOOK SUMMARY...No: S3
BY COUNTRY

YEAR	COUNTRY	REF	OTHER COUNTRY		REPORTED BY	
			IMPORTS	EXPORTS	IMPORTS	EXPORTS
1984	West. Samoa	W1		290		
1985	West. Samoa	W1		0		
1986	West. Samoa	W1		0		
1987	West. Samoa	W1		3300		
1988	West. Samoa	W1		32877		
1989	West. Samoa	W1		48300		
1990	West. Samoa	W1		43161		
1984	Yemen (Arab Rep)	Y1		0		
1985	Yemen (Arab Rep)	Y1		0		
1986	Yemen (Arab Rep)	Y1		30000		
1987	Yemen (Arab Rep)	Y1		30000		
1988	Yemen (Arab Rep)	Y1		65000		
1989	Yemen (Arab Rep)*	Y1		94200		
1990	Yemen (Arab Rep)*	Y1		116000		
1984	Yemen (Peop Rep)	Y2		2000		
1985	Yemen (Peop Rep)	Y2		0		
1986	Yemen (Peop Rep)	Y2		56000		
1987	Yemen (Peop Rep)	Y2		37000		
1988	Yemen (Peop Rep)	Y2		50500		
1989	Yemen (Peop Rep)	Y2		20000		
1990	Yemen (Peop Rep)	Y2		0		
1984	Zaire	Z1	30			
1985	Zaire	Z1	30			
1986	Zaire	Z1	0			
1987	Zaire	Z1	0			
1988	Zaire	Z1	15			
1989	Zaire	Z1	0			
1990	Zaire	Z1	0			
	TOTAL		19058416	30998905	30998905	19058416

APPENDIX III

Summary of Import Statistics

- a. Quantity (KG)
- b. Value (currency)
- c. Price per KG (currency)
- d. Value (sterling)
- e. Price per KG (sterling)

Total value of shark fins imported, identified from the foreign trade statistics of the countries examined.

nb: n/a = figures not available at Export Market Information Library

IMPORTS (local currency)

Total	1984	1985	1986	1987	1988	1989	1990
Hong Kong HK\$	304369903	285519797	346581198	558669964	755437737	727795615	739880593
Indonesia US\$	n/a	0	0	182	167	1700	6169
Japan yen	n/a	n/a	0	0	0	0	0
Malaysia US\$	3126533	2173406	820551	769206	758786	1250020	n/a
Rep. Korea US\$	n/a	8936	0	35740	429553	366451	293253
Singapore \$	n/a	n/a	22117000	35397000	42645000	39667000	34275000
Sri Lanka RS	n/a	0	0	0	0	0	n/a
Taiwan NT\$	989000	436000	1113000	8369000	41008000	51263000	30325000
Thailand BAHT	25222074	43803864	53108742	56968804	57271267	26424394	20254926

Dried*	1984	1985	1986	1987	1988	1989	1990
Hong Kong HK\$	304315028	285444062	346581198	558655564	740443101	713217299	719471503
Indonesia US\$	n/a	0	0	182	167	1700	6127
Japan yen	n/a	n/a	0	0	0	0	0
Malaysia US\$	3099749	2145479	797136	756700	639187	1084564	n/a
Rep. Korea US\$	n/a	0	0	0	0	0	0
Singapore \$	n/a	n/a	21304000	34049000	40754000	38137000	33338000
Sri Lanka RS	n/a	0	0	0	0	0	n/a
Taiwan NT\$	0	0	0	0	0	46099000	23396000
Thailand BAHT	25222074	43803864	53108742	56968804	57271267	26424394	20254926

Other/Unspecified	1984	1985	1986	1987	1988	1989	1990
Hong Kong HK\$	54875	75735	0	14400	14994636	14578316	20409090
Indonesia US\$	n/a	0	0	0	0	0	42
Japan yen	n/a	n/a	0	0	0	0	0
Malaysia US\$	26784	27927	23415	12506	119599	165456	n/a
Rep. Korea US\$	n/a	8936	0	35740	429553	366451	293252
Singapore \$	n/a	n/a	813000	1348000	1891000	1530000	937000
Sri Lanka RS	n/a	0	0	0	0	0	n/a
Taiwan NT\$	989000	436000	1113000	8369000	41008000	5164000	6929000
Thailand BAHT	0	0	0	0	0	0	0
TOTAL							

nb: n/a = figures not available at Export Market Information Library

IMPORTS (kg)

Total	1984	1985	1986	1987	1988	1989	1990
Hong Kong	2778978	2648187	2879084	3552634	3737923	3553966	3838028
Indonesia	n/a	0	0	50	3	4000	682
Japan	n/a	n/a	0	0	0	0	0
Malaysia	274810	162090	73460	64460	73010	91140	n/a
Republic of Korea	n/a	90	0	1250	6067	7934	11400
Singapore	n/a	n/a	869118	1198381	1925016	1234360	1023884
Sri Lanka	n/a	0	0	0	0	0	n/a
Taiwan	2100	1097	2800	20366	103498	125662	70135
Thailand	84752	96766	94978	104573	131462	83584	66927
TOTAL	3140640	2908230	3919440	4941914	5976979	5100646	5011056
Dried*	1984	1985	1986	1987	1988	1989	1990
Hong Kong	2778839	2648007	2879084	3552514	3614918	3406500	3629719
Indonesia	n/a	0	0	50	3	4000	650
Japan	n/a	n/a	0	0	0	0	0
Malaysia	273800	161200	72570	64420	55120	78960	n/a
Republic of Korea	n/a	0	0	0	0	0	0
Singapore	n/a	n/a	861000	1178000	1899000	1198000	1006000
Sri Lanka	n/a	0	0	0	0	0	n/a
Taiwan	0	0	0	0	0	96355	39905
Thailand	84752	96766	94978	104573	131462	83584	66927
TOTAL	3137391	2905973	3907632	4899257	5698503	4867399	4743201
Other/Unspecified	1984	1985	1986	1987	1988	1989	1990
Hong Kong	139	180	0	120	123005	147466	208309
Indonesia	n/a	0	0	0	0	0	32
Japan	n/a	n/a	0	0	0	0	0
Malaysia	1010	890	890	540	19890	12180	n/a
Republic of Korea	n/a	90	0	1250	6067	7934	11400
Singapore	n/a	n/a	8118	20381	26016	36360	17884
Sri Lanka	n/a	0	0	0	0	0	n/a
Taiwan	2100	1097	2800	20366	103498	29307	30230
Thailand	0	0	0	0	0	0	0
TOTAL	3249	2257	11808	42657	278476	233247	267855
% Dried	99.90	99.92	99.70	99.14	95.34	95.43	94.65
% Other/Unspecified	.10	.08	.30	.86	4.66	4.57	5.35

total value of shark fins imported, identified from the foreign trade statistics of the countries examined.

nb: n/a = figures not available at Export Market Information Library

IMPORTS (# sterling)

Total

	1984	1985	1986	1987	1988	1989	1990
Hong Kong	32657714.91	25584211.20	30752546.41	39177416.83	52533917.73	58130640.18	49128857.44
Indonesia	n/a	.00	.00	99.45	90.76	10625.00	3196.37
Japan	n/a	n/a	.00	.00	.00	.00	.00
Malaysia	2627338.66	1519864.34	569827.08	420331.15	412383.70	781262.50	n/a
Republic of Korea	n/a	6248.95	.00	19530.05	233452.72	229031.88	151944.56
Singapore	n/a	n/a	6976971.61	9644959.13	11945378.15	12963071.90	10323795.18
Sri Lanka	n/a	.00	.00	.00	.00	.00	n/a
Taiwan	21069.45	7639.74	21632.65	160695.08	790591.86	1217648.46	579274.12
Thailand	796905.97	1164377.03	1420019.84	1244403.76	1218537.60	641368.79	421977.63

TOTAL

	1984	1985	1986	1987	1988	1989	1990
Hong Kong	36103028.99	28282341.26	39740997.59	50667435.46	67134352.52	73973648.69	60609045.29
Indonesia	32651827.04	25577424.91	30752546.41	39176407.01	51491175.31	56966237.94	47773672.18
Japan	n/a	.00	.00	99.45	90.76	10625.00	3174.61
Malaysia	2604831.09	1500334.97	553566.67	413497.27	347384.24	677852.50	n/a
Republic of Korea	n/a	.00	.00	.00	.00	.00	.00
Singapore	n/a	n/a	6720504.73	9277656.68	11415686.27	12463071.90	10041566.27
Sri Lanka	n/a	.00	.00	.00	.00	.00	n/a
Taiwan	.00	.00	.00	.00	.00	1094988.12	446915.00
Thailand	796905.97	1164377.03	1420019.84	1244403.76	1218537.60	641368.79	421977.63

TOTAL

	1984	1985	1986	1987	1988	1989	1990
Hong Kong	5887.88	6786.29	.00	1009.82	1042742.42	1164402.24	1355185.26
Indonesia	n/a	.00	.00	.00	.00	.00	21.76
Japan	n/a	n/a	.00	.00	.00	.00	.00
Malaysia	22507.56	19529.37	16260.42	6833.88	64999.46	103410.00	n/a
Republic of Korea	n/a	6248.95	.00	19530.05	233452.72	229031.88	151944.04
Singapore	n/a	n/a	256466.88	367302.45	529691.88	500000.00	282228.92
Sri Lanka	n/a	.00	.00	.00	.00	.00	n/a
Taiwan	21069.45	7639.74	21632.65	160695.08	790591.86	122660.33	132359.12
Thailand	.00	.00	.00	.00	.00	.00	.00

SHARK FIN IMPORTS PRICE PER KG (currency)

Total	1984	1985	1986	1987	1988	1989	1990
Hong Kong HK\$	109.53	107.82	120.38	157.26	202.10	204.78	192.78
Indonesia US\$	n/a	.00	.00	3.64	55.67	4.25	9.05
Japan yen	n/a	n/a	.00	.00	.00	.00	.00
Malaysia US\$	11.38	13.41	11.17	11.90	10.39	13.72	n/a
Rep. Korea US\$	n/a	99.29	.00	28.59	70.80	46.19	25.72
Singapore \$	n/a	n/a	25.45	29.54	22.15	32.14	33.48
Sri Lanka RS	n/a	.00	.00	.00	.00	.00	n/a
Taiwan NT\$	470.95	397.45	397.50	410.93	396.22	407.94	432.38
Thailand BAHT	297.60	452.68	559.17	544.78	435.65	316.14	302.64
Dried	1984	1985	1986	1987	1988	1989	1990
Hong Kong HK\$	109.51	107.80	120.38	157.26	204.83	209.37	198.22
Indonesia US\$	n/a	.00	.00	3.64	55.67	4.25	9.43
Japan yen	n/a	n/a	.00	.00	.00	.00	.00
Malaysia US\$	11.32	13.31	10.98	11.80	12.03	13.74	n/a
Rep. Korea US\$	n/a	.00	.00	.00	.00	.00	.00
Singapore \$	n/a	n/a	24.74	28.90	21.46	31.83	33.14
Sri Lanka RS	n/a	.00	.00	.00	.00	.00	n/a
Taiwan NT\$	297.60	452.68	559.17	544.78	435.65	478.43	586.29
Thailand BAHT	297.60	452.68	559.17	544.78	435.65	316.14	302.64
Other	1984	1985	1986	1987	1988	1989	1990
Hong Kong HK\$	394.78	420.75	.00	120.00	121.90	98.86	97.98
Indonesia US\$	n/a	.00	.00	.00	.00	.00	1.31
Japan yen	n/a	n/a	.00	.00	.00	.00	.00
Malaysia US\$	26.52	31.38	26.31	23.16	6.01	13.58	n/a
Rep. Korea US\$	n/a	99.29	.00	28.59	70.80	46.19	25.72
Singapore \$	n/a	n/a	100.15	66.14	72.69	42.08	52.39
Sri Lanka RS	n/a	.00	.00	.00	.00	.00	n/a
Taiwan NT\$	470.95	397.45	397.50	410.93	396.22	176.20	229.21
Thailand BAHT	.00	.00	.00	.00	.00	.00	.00

Total	1984	1985	1986	1987	1988	1989	1990
Hong Kong	11.75	9.66	10.68	11.03	14.05	16.36	12.80
Indonesia	n/a	n/a		1.99	30.25	2.66	4.69
Japan	n/a	n/a					n/a
Malaysia	9.56	9.38	7.76	6.50	5.65	8.57	13.33
Rep. Korea	n/a	69.43		15.62	38.48	28.87	10.08
Singapore	n/a	n/a	8.03	8.05	6.21	10.50	n/a
Sri Lanka	n/a						n/a
Taiwan	10.03	6.96	7.73	7.89	7.64	9.69	8.26
Thailand	9.40	12.03	14.95	11.90	9.27	7.67	6.31
Dried	1984	1985	1986	1987	1988	1989	1990
Hong Kong	11.75	9.66	10.68	11.03	14.24	16.72	13.16
Indonesia	n/a	.00	.00	1.99	30.25	2.66	4.88
Japan	n/a	n/a	.00	.00	.00	.00	.00
Malaysia	9.51	9.31	7.63	6.45	6.54	8.58	n/a
Rep. Korea	n/a	ERROR	.00	ERROR	ERROR	ERROR	ERROR
Singapore	n/a	n/a	.00	7.88	6.01	10.40	9.98
Sri Lanka	n/a	.00	.00	.00	.00	.00	n/a
Taiwan	ERROR	ERROR	ERROR	ERROR	ERROR	11.36	11.20
Thailand	9.40	12.03	14.95	11.90	9.27	7.67	6.31
Other	1984	1985	1986	1987	1988	1989	1990
Hong Kong	42.36	37.70	.00	8.42	8.48	7.90	6.51
Indonesia	n/a	ERROR	ERROR	ERROR	ERROR	ERROR	.68
Japan	n/a	n/a	ERROR	ERROR	ERROR	ERROR	ERROR
Malaysia	22.28	21.94	18.27	12.66	3.27	8.49	n/a
Rep. Korea	n/a	69.43	ERROR	15.62	38.48	28.87	13.33
Singapore	n/a	n/a	31.59	18.02	20.36	13.75	n/a
Sri Lanka	n/a	ERROR	ERROR	ERROR	ERROR	ERROR	n/a
Taiwan	10.03	6.96	7.73	7.89	7.64	4.19	
Thailand	ERROR	ERROR	ERROR	ERROR	ERROR	ERROR	ERROR



APPENDIX IV

Summary of Export Statistics

- a. Quantity (KG)
- b. Value (currency)
- c. Price per KG (currency)
- d. Value (sterling)
- e. Price per KG (sterling)

nb: n/a = figures not available at Export Market Information Library

EXPORTS (Kg)									
Total	1984	1985	1986	1987	1988	1989	1990		
Hong Kong	390236	427374	596658	846285	1207071	1434110	1609523		
Indonesia	n/a	326718	429248	546763	458442	516511	421556		
Japan	n/a	n/a	710667	632189	527470	507042	451264		
Malaysia	2130	2090	280	13060	8300	11320	n/a		
Republic of Korea	n/a	39998	79236	60100	51028	35932	75469		
Singapore	n/a	n/a	750459	1122279	920358	1573549	835399		
Sri Lanka	n/a	26353	35512	52978	49159	53932	n/a		
Taiwan	16867	676	9368	150608	149857	207450	366277		
Thailand	20683	22382	37024	42069	52890	35171	24946		
TOTAL	437916	845691	2640452	3466331	3424575	4451017	3784434		
Dried*	1984	1985	1986	1987	1988	1989	1990		
Hong Kong	396355	428328	593719	846125	1193647	1402701	1578277		
Indonesia	n/a	326718	429248	546763	458442	475028	421556		
Japan	n/a	n/a	710667	632189	527470	507042	451264		
Malaysia	2130	2090	280	13060	1870	1200	n/a		
Republic of Korea	n/a	0	0	0	0	0	0		
Singapore	n/a	n/a	736300	1089000	877000	1523500	806000		
Sri Lanka	n/a	26353	35512	52978	49159	53932	n/a		
Taiwan	0	0	0	0	0	8312	8207		
Thailand	20683	22382	37024	36682	52890	35171	24946		
TOTAL	419748	803071	2500450	3216797	3160478	4004386	3250330		
Other/Unspecified	1984	1985	1986	1987	1988	1989	1990		
Hong Kong	1681	1346	979	160	13424	31409	71246		
Indonesia	n/a	0	0	0	0	41483	0		
Japan	n/a	n/a	0	0	0	0	0		
Malaysia	0	0	0	0	6430	10120	n/a		
Republic of Korea	n/a	39998	79236	60100	51028	35932	75469		
Singapore	n/a	n/a	14459	33279	43358	48549	29399		
Sri Lanka	n/a	0	0	0	0	0	n/a		
Taiwan	16867	676	9368	150608	149857	279138	357990		
Thailand	0	0	0	5387	0	0	0		
TOTAL	18548	42420	104002	249554	264097	446631	534104		

* Fins described as dried under commodity codes given in Table 3.01

SOURCE: Department of Trade and Industry - Export Market Information Library

Total value of shark fins exported, identified from the foreign trade statistics of the countries examined.

nb: n/a = figures not available at Export Market Information Library

EXPORTS (local currency)

	1984	1985	1986	1987	1988	1989	1990
Total							
Hong Kong	66658182	72208061	62641903	114543715	176856278	199549056	189492590
Indonesia	n/a	677310	1033711	2703067	6292972	11058742	9948784
Japan	n/a	n/a	1727173000	1883866000	1803470000	1736471000	1485803000
Malaysia	15596	24963	1740	76294	115555	190305	n/a
Republic of Korea	n/a	497984	899212	1087408	1074485	681171	1036859
Singapore	n/a	n/a	23723000	38268000	42101000	36343000	37716000
Sri Lanka	n/a	10534389	14251103	26931267	32485131	34700854	n/a
Taiwan	2134000	350000	4190000	24415000	28184000	57499000	62075000
Thailand	9156644	17551612	28960252	27727374	34165237	27685004	31426871

	1984	1985	1986	1987	1988	1989	1990
Dried*							
Hong Kong	65647496	71093708	62099594	114433315	170145165	190616576	176355790
Indonesia	n/a	677310	1033711	2703067	6292972	10472583	9948784
Japan	n/a	n/a	1727173000	1883866000	1803470000	1736471000	1485803000
Malaysia	15596	24963	1740	76294	32240	12268	n/a
Republic of Korea	n/a	0	0	0	0	0	0
Singapore	n/a	n/a	22559	36827	36399	31377	28782
Sri Lanka	n/a	10534389	14251103	26931267	32485131	34700854	n/a
Taiwan	0	0	0	0	0	8384000	1836000
Thailand	9156644	17551612	28960252	26876511	34165237	27685004	31426871

TOTAL

	1984	1985	1986	1987	1988	1989	1990
Other/Unspecified							
Hong Kong	1010686	1114353	542309	110400	6711113	8932480	13136800
Indonesia	n/a	0	0	0	0	41483	0
Japan	n/a	n/a	0	0	0	0	0
Malaysia	0	0	0	0	83315	178037	n/a
Republic of Korea	n/a	497984	899212	1087408	1074485	681171	1036859
Singapore	n/a	n/a	1164	1441	5702	4966	4934
Sri Lanka	n/a	0	0	0	0	0	n/a
Taiwan	2134000	350000	4190000	24415000	28184000	49115000	60239000
Thailand	0	0	0	850863	0	0	0

TOTAL

SHARK FIN EXPORTS PRICE PER KG (currency)

Year	1984	1985	1986	1987	1988	1989	1990
Hong Kong HK\$	167.38	169.00	104.99	135.35	146.52	139.14	117.73
Indonesia US\$	n/a	2.07	2.41	4.94	13.73	21.41	23.60
Japan yen	n/a	n/a	2430.35	2979.91	3419.09	3451.94	3292.54
Malaysia US\$*	7.32	11.94	6.21	5.84	13.92	16.81	n/a
Rep. Korea US\$	n/a	12.45	11.35	18.09	21.06	18.96	13.74
Singapore \$	n/a	n/a	31.61	34.10	45.74	23.10	45.15
Sri Lanka RS	n/a	399.74	401.30	508.35	660.82	643.42	n/a
Taiwan NT\$ (other)	126.52	517.75	447.27	162.11	188.07	200.03	169.48
Thailand BAHT (dri)	442.71	784.18	782.20	659.09	645.97	787.15	1259.80
Dried*	1984	1985	1986	1987	1988	1989	1990
Hong Kong HK\$ (dri)	165.54	167.15	104.24	135.24	142.54	135.89	114.65
Indonesia US\$	n/a	2.07	2.41	4.94	13.73	22.05	23.60
Japan yen	n/a	n/a	2430.35	2979.91	3419.09	3451.94	3292.54
Malaysia US\$*	7.32	11.94	6.21	5.84	17.24	10.22	n/a
Rep. Korea US\$	n/a	.00	.00	.00	.00	.00	.00
Singapore \$	n/a	n/a	.03	.03	.04	.02	.04
Sri Lanka RS	n/a	399.74	401.30	508.35	660.82	643.42	n/a
Taiwan NT\$.00	.00	.00	.00	.00	1008.66	221.55
Thailand BAHT (dri)	442.71	784.18	782.20	732.69	645.97	787.15	1259.80
Other	1984	1985	1986	1987	1988	1989	1990
Hong Kong HK\$	601.24	572.64	577.54	690.00	499.93	284.39	184.39
Indonesia US\$	n/a	.00	.00	.00	.00	1.00	.00
Japan yen	n/a	n/a	.00	.00	.00	.00	.00
Malaysia US\$*	.00	.00	.00	.00	12.96	17.59	n/a
Rep. Korea US\$	n/a	12.45	11.35	18.09	21.06	18.96	13.74
Singapore \$	n/a	n/a	.08	.04	.13	.10	.17
Sri Lanka RS	n/a	.00	.00	.00	.00	.00	n/a
Taiwan NT\$	126.52	517.75	447.27	162.11	188.07	175.95	168.27
Thailand BAHT	.00	.00	.00	157.95	.00	.00	.00

Total value of shark fins exported, identified from the foreign trade statistics of the countries examined.

nb: n/a = figures not available at Export Market Information Library

EXPORTS (# sterling)

	1984	1985	1986	1987	1988	1989	1990
Total							
Hong Kong	7152165	6470256	5558288	8032519	12298768	15938423	12582509
Indonesia	n/a	473643	717855	1477086	3420093	6911714	5154810
Japan	n/a	n/a	7365343	8120112	7971138	7517190	5786964
Malaysia	13106	17457	1208	41691	62802	118941	n/a
Republic of Korea	n/a	348241	345822	491373	590983	671553	352938
Singapore	n/a	n/a	7483596	10427248	11792997	11876797	11360241
Sri Lanka	n/a	272277	348438	484375	532543	541355	n/a
Taiwan	45462	6133	81438	468798	543358	1365772	1185769
Thailand	289309	466550	774338	605666	726920	671966	654726
TOTAL	7500043	8054557	22676327	30148867	37939602	45613711	37077958
Dried*							
Hong Kong	7043723	6370404	5510168	8024777	11832070	15234966	11710212
Indonesia	n/a	473643	717855	1477086	3420093	6545364	5154810
Japan	n/a	n/a	7365343	8120112	7971138	7517190	5786964
Malaysia	13106	17457	1208	41691	17522	7668	n/a
Republic of Korea	n/a	0	0	0	0	0	0
Singapore	n/a	n/a	7116	10035	10196	10254	8669
Sri Lanka	n/a	272277	348438	484375	532543	541355	n/a
Taiwan	0	0	0	0	0	199145	35072
Thailand	289309	466550	774338	587080	726920	671966	654726
TOTAL	7346138	7600331	14724467	18745155	24510482	30717908	23350454
Other							
Hong Kong	108443	99852	48120	7742	466698	713457	872297
Indonesia	n/a	0	0	0	0	25927	0
Japan	n/a	n/a	0	0	0	0	0
Malaysia	0	0	0	0	45280	111273	n/a
Republic of Korea	n/a	348241	624453	594212	583959	425732	537233
Singapore	n/a	n/a	367	393	1597	1623	1486
Sri Lanka	n/a	0	0	0	0	0	n/a
Taiwan	45462	6133	81438	468798	543358	1166627	1150697
Thailand	0	0	0	18586	0	0	0
TOTAL	153905	454226	754378	1089731	1640892	2444639	2561713

Total	1984	1985	1986	1987	1988	1989	1990
Hong Kong	17.96	15.14	9.32	9.49	10.19	11.11	7.8
Indonesia	n/a	1.45	1.67	2.70	7.46	13.38	12.2
Japan	n/a	n/a	10.36	12.84	15.11	14.94	12.8
Malaysia	6.15	8.35	4.32	3.19	7.57	10.51	n/a
Rep. Korea	n/a	8.71	4.36	8.18	11.58	18.69	4.6
Singapore	n/a	n/a	9.97	9.29	12.81	7.55	13.6
Sri Lanka	n/a	10.33	9.81	9.14	10.83	10.04	n/a
Taiwan	2.70	9.07	8.69	3.11	3.63	4.75	3.2
Thailand	13.99	20.84	20.91	14.40	13.74	19.11	26.2
Dried	1984	1985	1986	1987	1988	1989	1990
Hong Kong	17.76	14.98	9.25	9.48	9.91	10.85	7.6
Indonesia	n/a	1.45	1.67	2.70	7.46	13.78	12.2
Japan	n/a	n/a	10.36	12.84	15.11	14.94	12.8
Malaysia	6.15	8.35	4.32	3.19	9.37	6.39	n/a
Rep. Korea	n/a	n/a	.00	.00	.00	.00	.00
Singapore	n/a	n/a	.01	.01	.01	.01	.01
Sri Lanka	n/a	10.33	9.81	9.14	10.83	10.04	n/a
Taiwan	.00	.00	.00	.00	.00	23.96	4.2
Thailand	13.99	20.84	20.91	16.00	13.74	19.11	26.2
Other	1984	1985	1986	1987	1988	1989	1990
Hong Kong	64.51	51.31	51.25	48.39	34.77	22.72	12.24
Indonesia	n/a	.00	.00	.00	.00	.63	.00
Japan	n/a	n/a	.00	.00	.00	.00	.00
Malaysia	.00	.00	.00	.00	7.04	11.00	n/a
Rep. Korea	n/a	.00	.00	.00	.00	.00	.00
Singapore	n/a	n/a	.03	.01	.04	.03	.05
Sri Lanka	n/a	.00	.00	.00	.00	.00	n/a
Taiwan	.00	.00	.00	3.11	3.63	4.18	3.21
Thailand	.00	.00	.00	.00	.00	.00	.00



APPENDIX V

Exchange Rates used in the conversion of currency values to sterling

NOTE: Malaysia statistics give values in \$. Have assumed this to be US\$ in the absence of other information. The local currency is the Ringgit.

The currency used for the Malaysian Government statistics should be Malaysian \$ and not US\$. Figures derived from the value of Malaysian import or export have to be changed accordingly.



APPENDIX V

Exchange Rates used in conversion of currency values to sterling

Source: Financial Times: World Value of the Pound (1984-1987), FT Guide to World Currencies (1988-1990), December values taken in each case.

	1984	1985	1986	1987	1988	1989	1990
Hong Kong HK\$	9.32	11.16	11.27	14.26	14.38	12.52	15.06
Indonesia US\$	1.19	1.43	1.44	1.83	1.84	1.60	1.93
Japan yen	294.75	289.00	234.50	232.00	226.25	231.00	256.75
Malaysia US\$*	1.19	1.43	1.44	1.83	1.84	1.60	1.93
Rep. Korea US\$	1.19	1.43	1.44	1.83	1.84	1.60	1.93
Singapore \$	2.59	3.02	3.17	3.67	3.57	3.06	3.32
Sri Lanka RS	30.75	38.69	40.90	55.60	61.00	64.10	76.50
Taiwan NT\$	46.94	57.07	51.45	52.08	51.87	42.10	52.35
Thailand BAHT	31.65	37.62	37.40	45.78	47.00	41.20	48.00

* NB: Assumed US\$ as not otherwise specified,
local currency = Ringgit

